

BerGere Connect





















Software of interconnection of electronic tools on
BerGere Mobile PC

Use and instruction manual

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General information and initial configuration of BerGere Connect

Description:

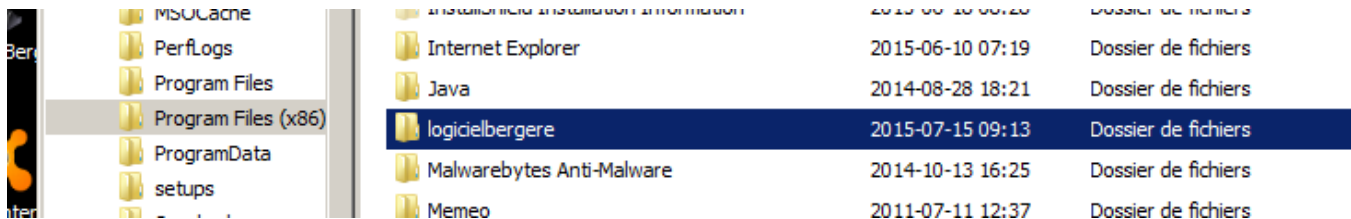
BerGere Connect is a software which makes it possible to redirect the data read on a communications port of your computer (COM port) or of a USB port towards the application EweManage *Mobile* PC. It makes it possible to convert the data read by various tools (RFID readers, electronic scales etc and to redirect them towards the appropriate fields of the Ewemanage *Mobile* PC software.

User license:

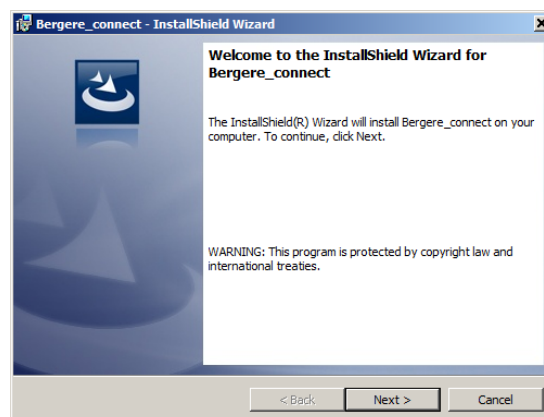
Your license is valid only for one computer. You must ensure that the installation that you make is for the computer for which this software is necessary. The license cannot be transferred of computer once installed.

Initial installation:

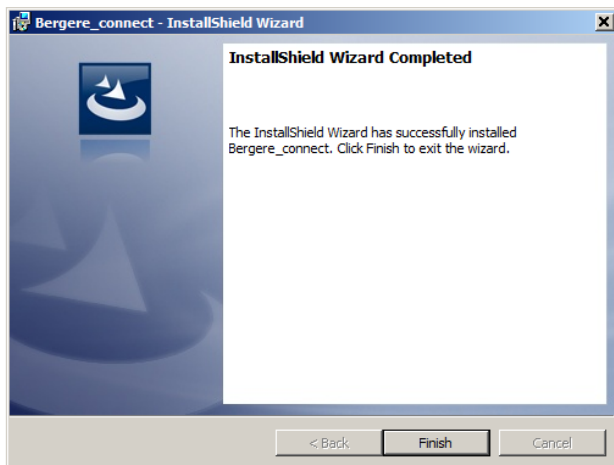
To install the software, download the BerGère connect file from the web site and doubleclick to install. The software will be installed in the directory: Logicielbergere/bergere_connect.



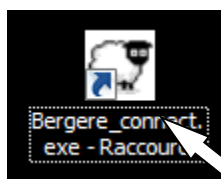
You will have the following screen:



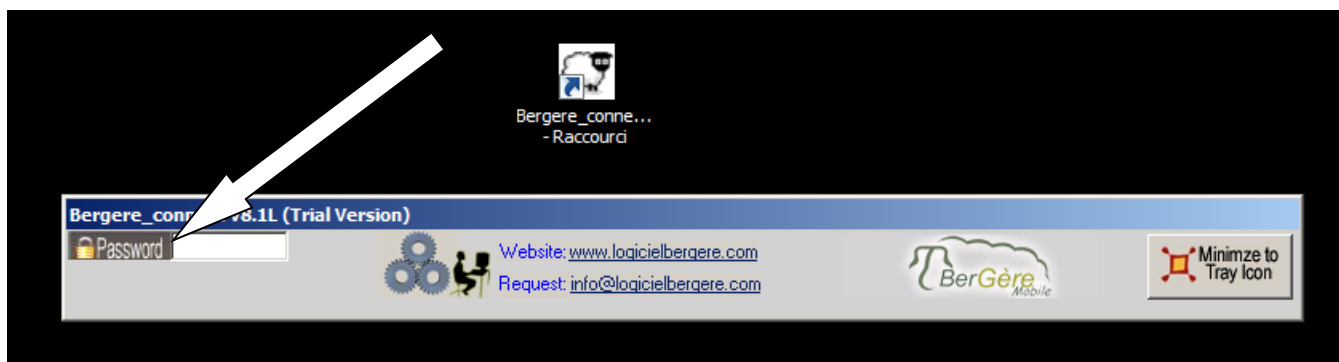
Click "Next" to continue and when the installation is finished you will have:



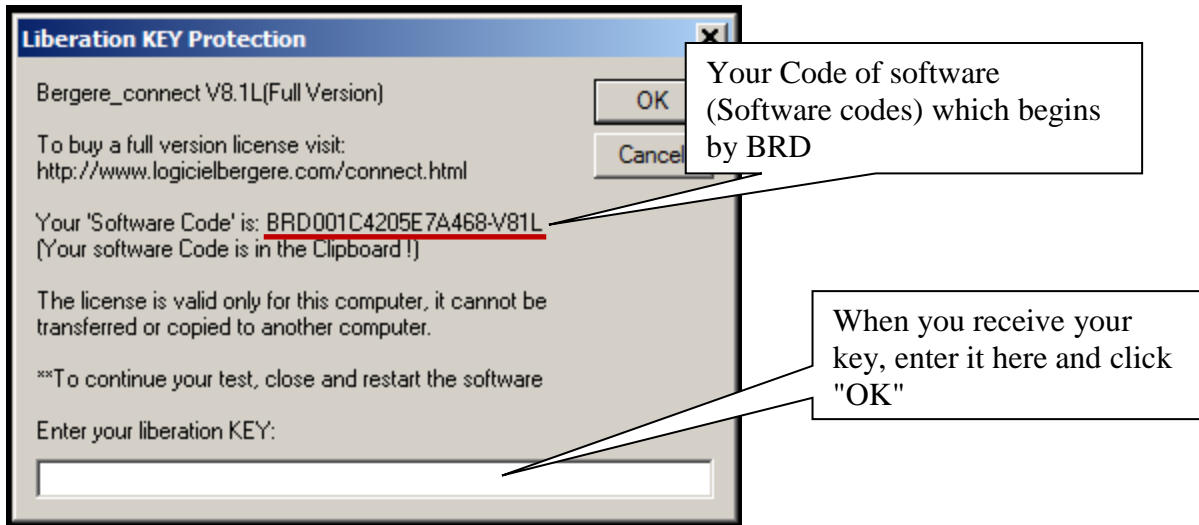
Click on the button "Finish" to finish the installation.
When the installation is finished, you have the following short cut on your desk:



Double-click above and you will see at the bottom of the screen the icon allowing the opening of the software. When clicking on this icon, you will have the following screen:



To configure this software for the first time you must enter in the Password field the password: REG. Connect BerGère will then presents the following screen:



Note the software code (which is unique for each PC) whose number starts with letters "BRD" and forward it to info@logicielbergere.com or call your administrator. We will give you then the "Liberation Key" to enter in the appropriate space at the bottom of the screen before clicking "OK".

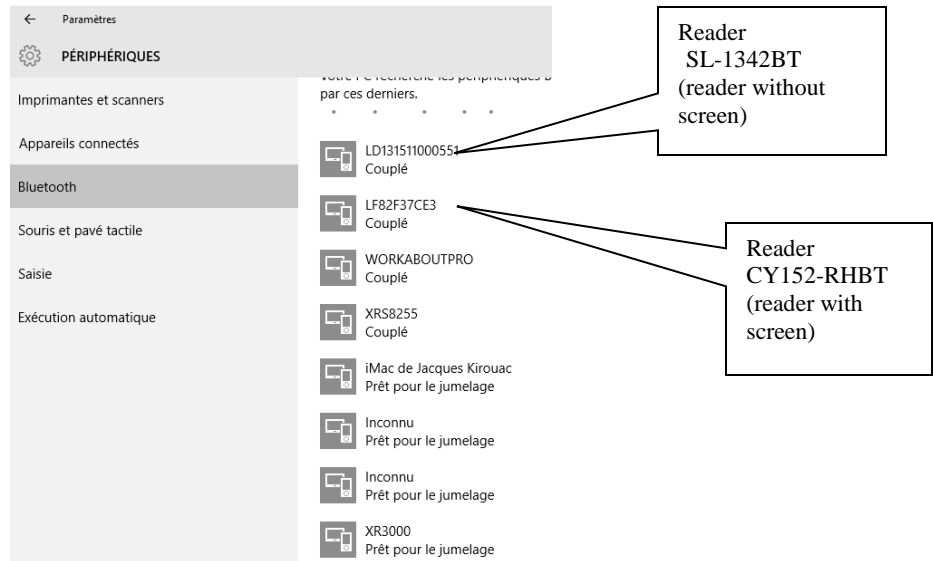
Note: If there is a time before you receive the key of use, you can click "Cancel" and repeat the preceding operations when you receive your key.

To close Connect BerGere you must enter END in the "Password" field. To see the monitor of positioning of mouse, to enter the field password: MOUSE. To see the field finder, enter FFINDER in the password field. To see the button finder, enter BFINDER .

Configuration of the readers SL-1342BT and CY152-RHBT

The readers above are bluetooth devices and must be configured consequently. The devices should initially "be paired", then you must identify the communications port used by the PC in order to connect to BerGere Connect.

Pairing is done as for any other device, with the fonction "Add a bluetooth device " in Windows. During pairing, the devices appear in first under the "Unknown" name but thereafter, their identification number is shown with the screen. The identifications are the following ones:



Reader SL-1342BT is the LD131511000551
 Reader CY152-RHBT is the LF83F37CE3

To make pairing, a code will be required of you. The codes are the following:

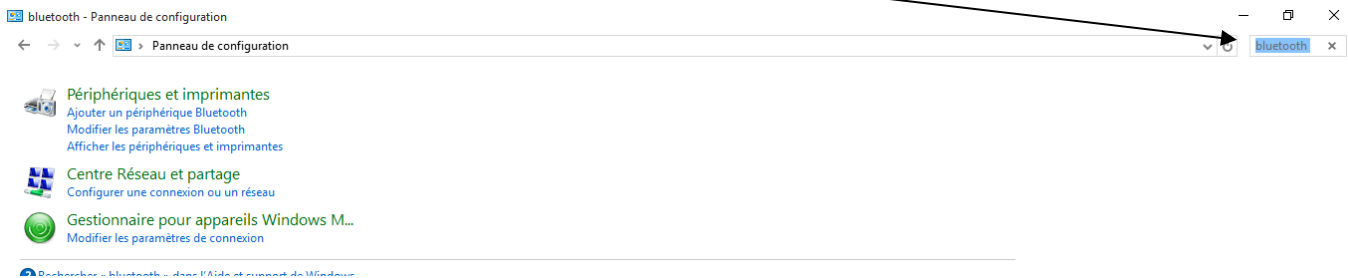
For the reader SL-1342BT, the code is "0000"
 For the reader CY152-RHBT, the code is "1234"

Once achieved pairing, the screen will indicate that the devices "Are coupled". You are ready to use the reader. The next stage consists in identifying the communications (COM) port of exit used by the connected device.

Identification of the output ports of the readers bluetooth

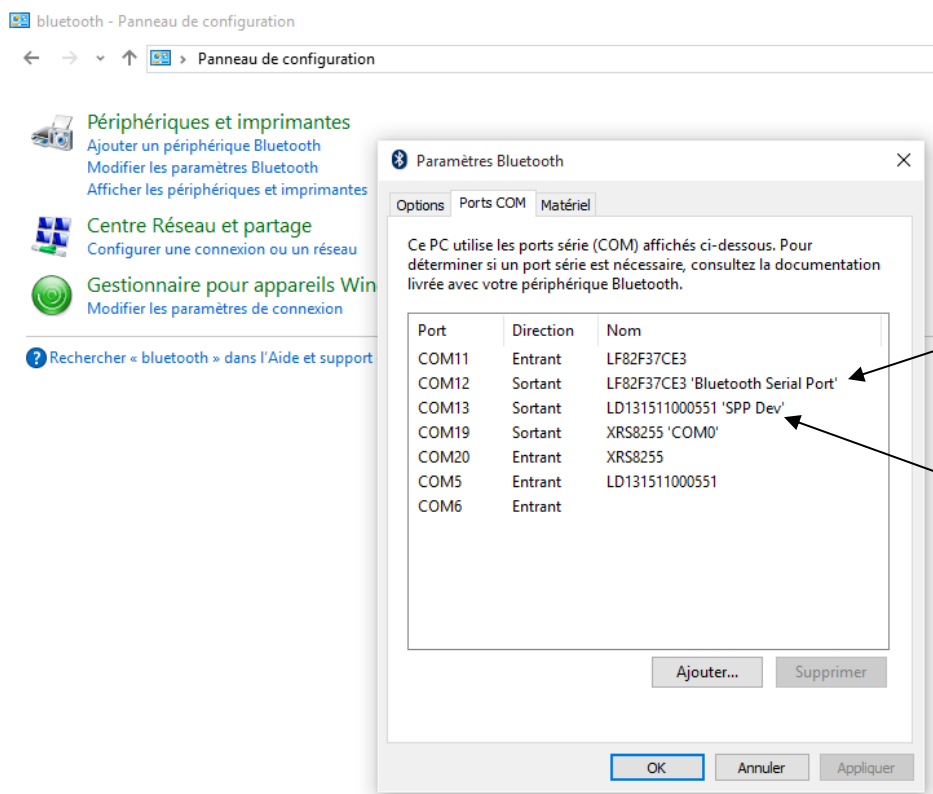
Note: the procedure is the same one for any device bluetooth.

- 1) Reach the control panel of the computer and enter "bluetooth" in the research field, top right corner



- 2) Item choose "Modify bluetooth parameters "
- 3) Identify the OUTGOING port of the device which you have just connected. In the example which follows, the outgoing port of the LF83... is the COM12 and that of the LD1315. is COM13. They are the numbers of ports which you will indicate in the configuration of the port series of BerGere connect (following section)

Note: in the following frenc screen, “sortant” = “Outgoing”
 “Entrant”= “Incoming”



Configuration of the SL-1342BT reader

Note: reader CY152-RHBT is not configurable.

The configuration of the reader consists in programming it so:

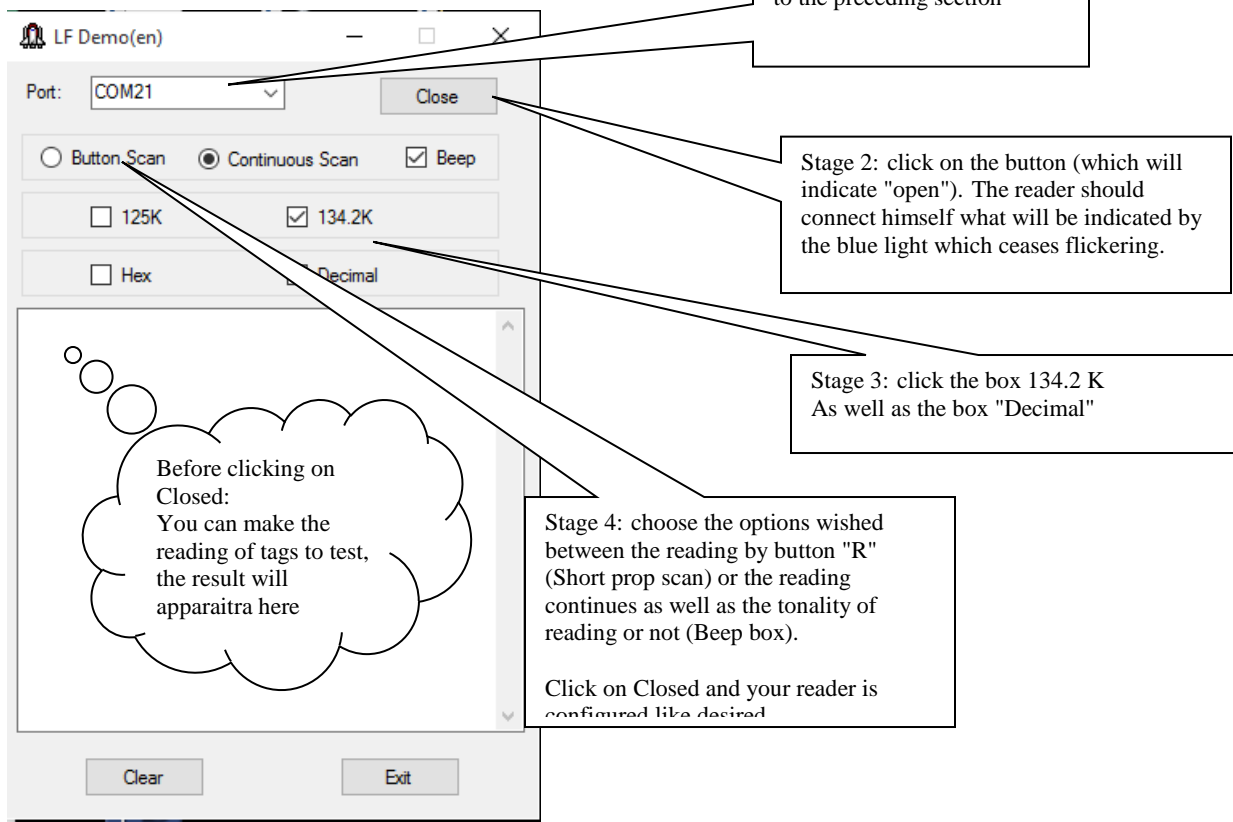
- 1) That the reading is done continuously (preferred choice) or using the reading button "R"
- 2) That the reader emits a sound upon reading

To program the reader, open the program named LF Demo (PC) on the key USB which was sent to you with BerGère Mobile PC.

Power up your RFID reader using the switch on the side. The blue light in the center of the three DEL should light and flicker.



You will be introduced to the following screen:



The screenshot shows the LF Demo(en) window with the following elements:

- Port: COM21 (dropdown menu)
- Close button
- Buttons: Button Scan, Continuous Scan, Beep
- Frequency: 125K, 134.2K
- Format: Hex, Decimal
- Clear and Exit buttons at the bottom.

Callout boxes provide the following instructions:

- Stage 1:** enter No of the port identified outgoing COM to the preceding section
- Stage 2:** click on the button (which will indicate "open"). The reader should connect himself what will be indicated by the blue light which ceases flickering.
- Stage 3:** click the box 134.2 K As well as the box "Decimal"
- Stage 4:** choose the options wished between the reading by button "R" (Short prop scan) or the reading continues as well as the tonality of reading or not (Beep box).
Click on Closed and your reader is configured like desired

A thought bubble indicates: "Before clicking on Closed: You can make the reading of tags to test, the result will apparaitra here"

Note: the blue central DEL = connexion bluetooth (fixes) or not connected (flickers)

DEL of left = reading and DEL of right-hand side = power of the battery and in load (red)

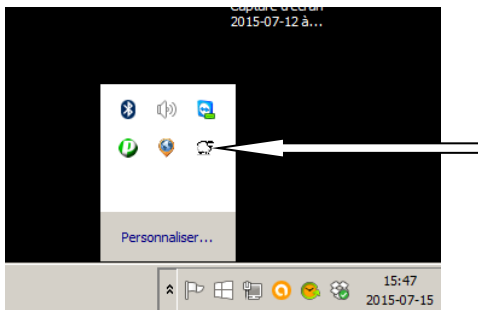
Initial use of Connect BerGère

Configuration for the various RFID readers:

As the software can receive the data from various devices, it must be configured appropriately.

The first step: open the configuration window:

- 1) Reach the opening icon in the tasks bar at the bottom of your screen and click on it.



- 2) The opening screen of the software appears. Enter, in the password field the word "bergere" which will lead you to the config screen



- 3) The next screen will allow to configure the software

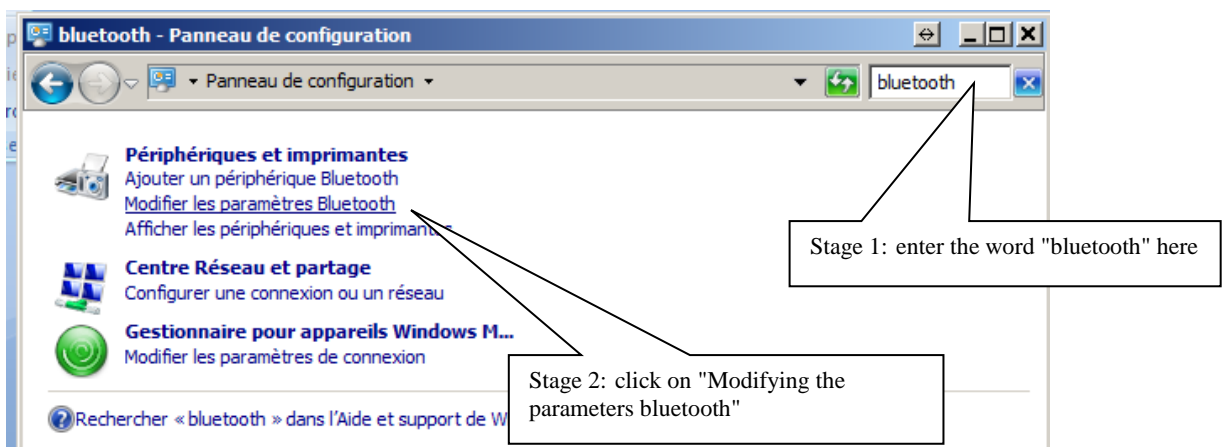


- 4) Next: identify the port COM which your reader uses (if you only have a reader with a USB connection, therefore which is not bluetooth, you still have to find the outgoing connection port of the device on your windows system.

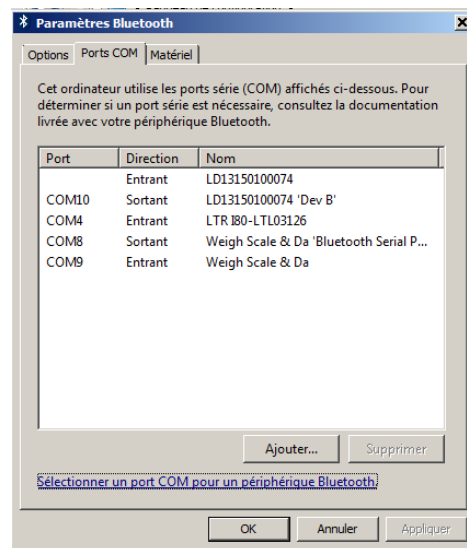
You must have beforehand made the connection (pairing) of your RFID reader bluetooth with the tablet according to the standard Windows procedures. Once paired, your computer assigns virtual ports COM with the device connected in bluetooth mode.

To find what port your reader uses, proceed as follows:

- Reach the "Control panel of your computer" and enter "Bluetooth" in the top right corner search area:
- Then, click on "Modifying the parameters bluetooth"



- 5) You will have the following screen and you must choose the panel with shutter entitled " COM Ports "

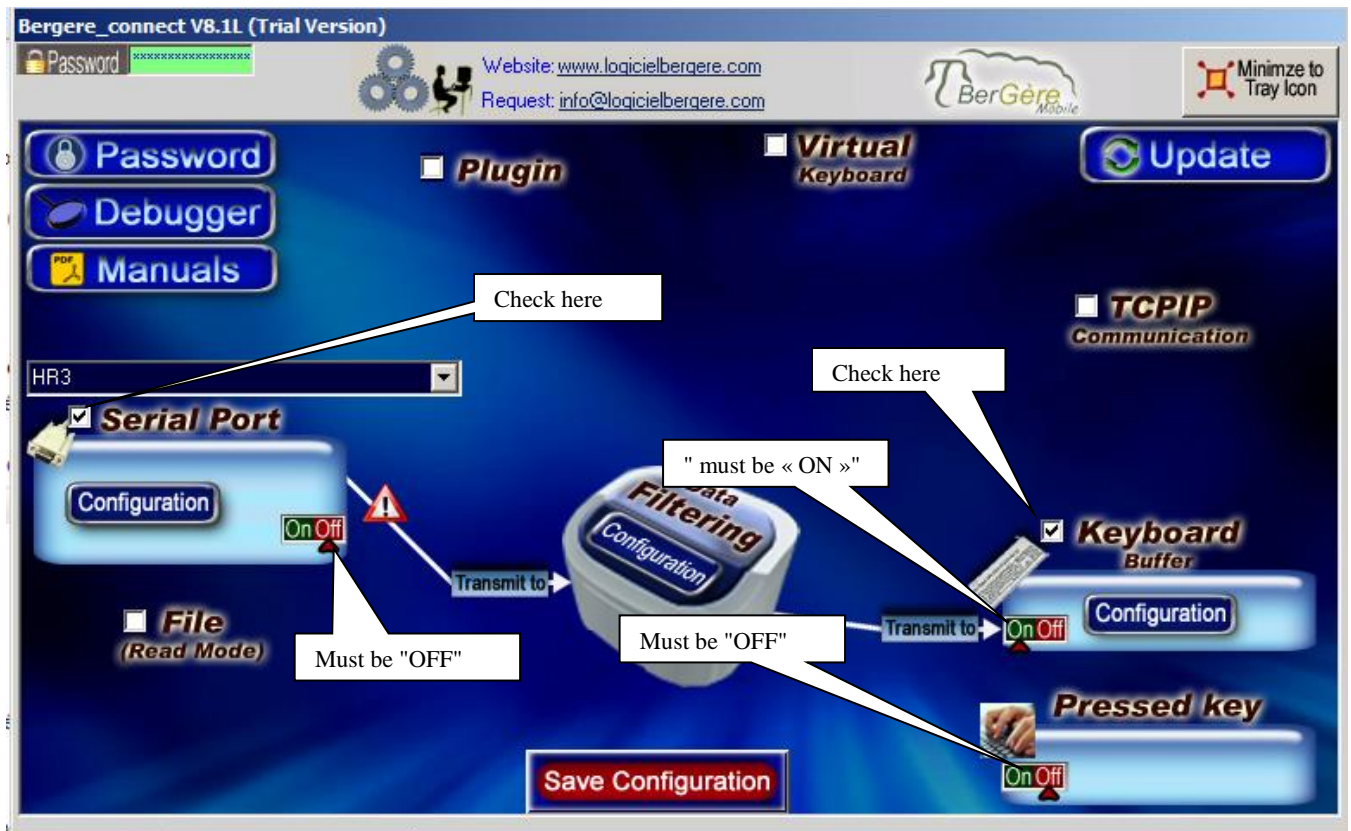


In the above example, the reader used is the LD13150100074. You must take in note the number of the port for your reader whose direction is "Outgoing" (in French "Sortant"). In this case, the COM10.

Use of the readers bluetooth with bergere_connect

Stage 1:

Check "serial port" and "Keyboard buffer":



Stage 2:

Click on the "Configuration" button and enter the COM port number you determined at the preceding stage. The fill color of the field should become green indicating that the port is available. The other inputs must be as follows:

Bauds: 9600

Parity: none

Databits: 8

StopBits: 1

Time-out: .2 (you ensure that it is well .2 and not 2 which is registered)

Handshake: None

Stage 3:

To configure the readers, according to the the model, proceed in the following way:

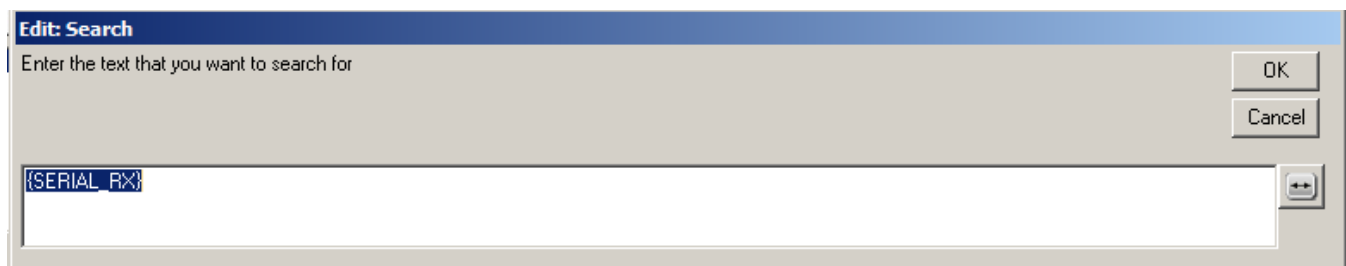
- 1) Click on the button "configuration" of the module "Dated filtering" as shown in the image above.



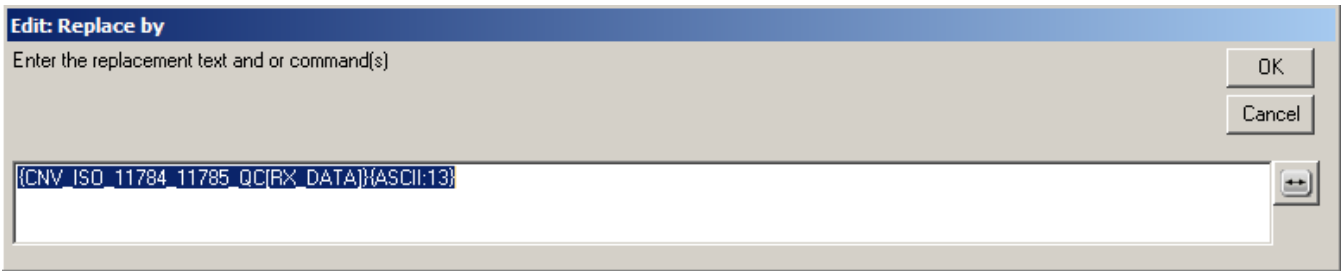
- 2) Click then on "add" and according to the type of reader, enter the following data:

Connection of SL-1342BT reader

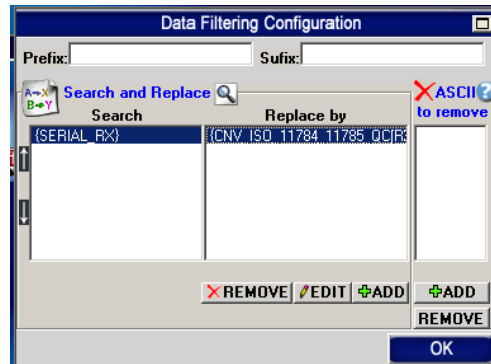
the field "Search" enter: {SERIAL_RX}



in the field "Replaces by": {CNV_ISO_11784_11785_QC [HEX_DATA]} {ASCII: 13}



Then click "OK" to have the following screen and click "OK again".



Connection of CY152RHB reader

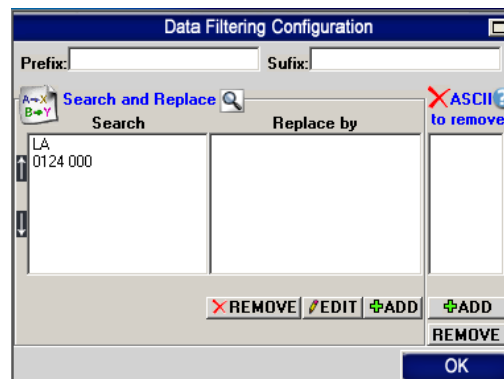
Proceed as for the preceding reader for the field "Search" - enter: {SERIAL_RX}, but in the field "Replaces by", enter the order:

{CNV_ISO_11784_11785_QC [{STRING_MID [RX_DATA, 7.16]}]} {ASCII: 13}

Connection of the Allflex HR3 reader

in the field "Search" enter : LA (First line)
0124 000 (second line) (note: space between 4 and 0)

in the field "Replace by": do not indicate anything



Connection of the reader Allflex RS320

in the field "Search": LA 124 000 (spaces between LA and 124 as well as between 124 and 000)

in the field "Replaces by": do not indicate anything

Connection of the Reader Allflex RS 420

You use BerGere Connect according to the definite stages above, but you do not have anything to indicate in the section Configuration of "Dated filtering".

Connection of the Reader Allflex LPR

You use Connect according to the definite stages above, but you do not have anything to indicate in BerGere the section Configuration of "Dated filtering".

Connection of the Reader TruTest XRS2

You use BerGere Connect according to the definite stages above, but you do not have anything to indicate in the section Configuration of "Dated filtering".

Connection of the Syscan reader

Nothing to indicate, you have to use Connect BerGère.

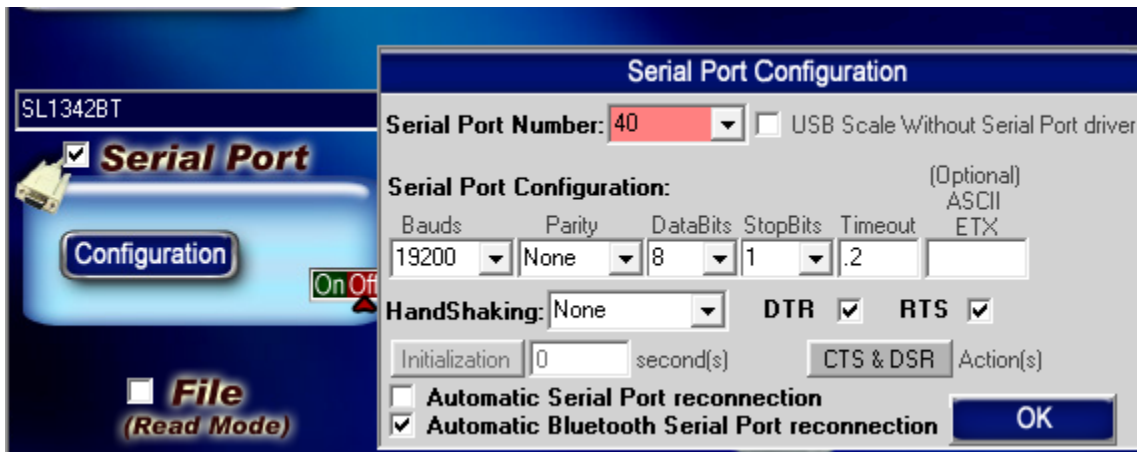
On the other hand, if you use the reader with an electronic scale in bluetooth mode and that you connect the scale on your PD or your tablet using a cable for direct reading in BerGere, your reader must be configured for the reading of the tags alone.

Using the menu on the Syscan reader, or using the "Livetrack manager" application menu "configuration", disable Type, Time and Site in the chain format. The configuration screen must be as follows:




Stage 4:

To supplement, click the box "Automatic Bluetooth serial port reconnection" then "OK" and click on "Save configuration" then click on the button "Minimize to tray" in the corner higher right of the screen. Your software is now ready to be used and will be active with each time you open your computer. It is not necessary to remake the configuration each time.



Connection of the Gallagher 800 or 810 scales (smart Scale)

To connect your scale, you will need to use one of the two com ports of the scale and to define this port as such. Moreover, you must install on your tablet, the software (provided on the site of Gallagher or your key USB of BerGère Mobile PC) software "USB to serialdriver..."

 UsbToSerialDriver_v1.9.0.exe

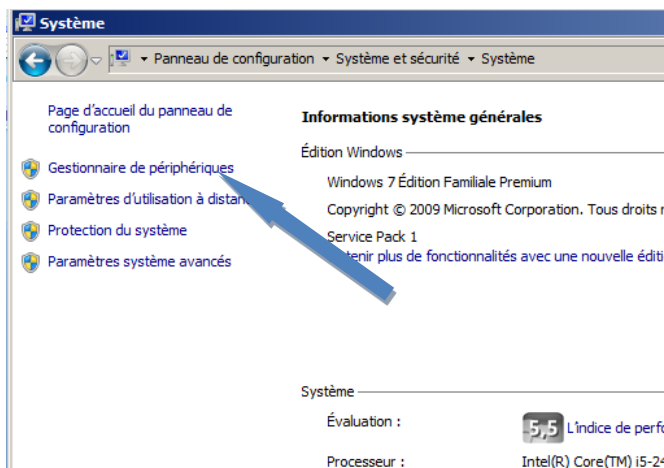
2015-07-09 14:37

Application

3 172 Ko

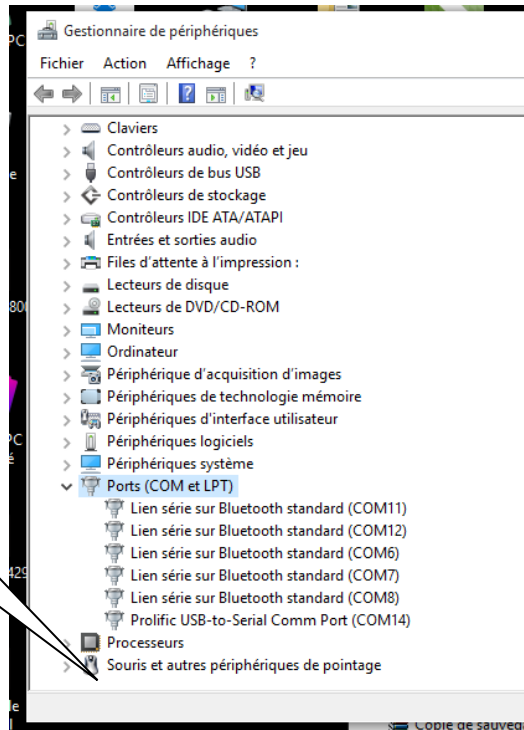
That allows to connect your USB port on the tablet as a communications port.

By reaching the manager of peripheral of your tablet (this PC and system Properties):



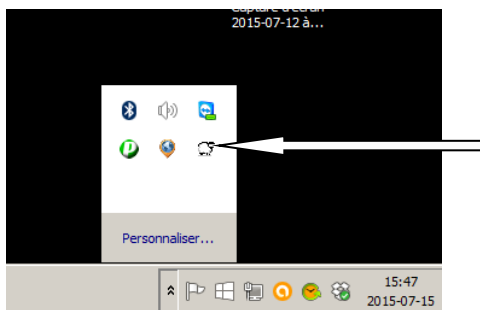
Under the Port COM tab, you will be able to identify the number of the COM port used by the USB of your PC on which your scale will be connected.

Identify the number of the prt COM used by the identification "USB to Serial "COM port, in this example No 14



With your scale, choose "set up" and the option "Communications". Define the port (1 or 2 because there are normally 2 ports on this model) on which the tablet will be connected, as an output port of computer with the configuration "Data logger (on lock) ". It is important to have the functionality "on lock". If the latter is not available, update of the software of your scale to the last version. The option "On Lock" indicates to the scale to transmit information towards the PC only when the weighing is stabilized (indicated by the red indicator of the scale).

With your tablet, open the software " BerGère Connect" while clicking on the suitable icon



Enter "bergere" in the password space and click on the button "Configuration" associated with the Serial Port:



- a) The configuration of the serial port, enter the speed parameters as follows, and as specified in the instructions of Gallagher for " Data logger " (see the technical note Datalogger from Gallagher for more details):

Port settings.

Speed: 19.200 bits/s - entered in the "Bauds" section

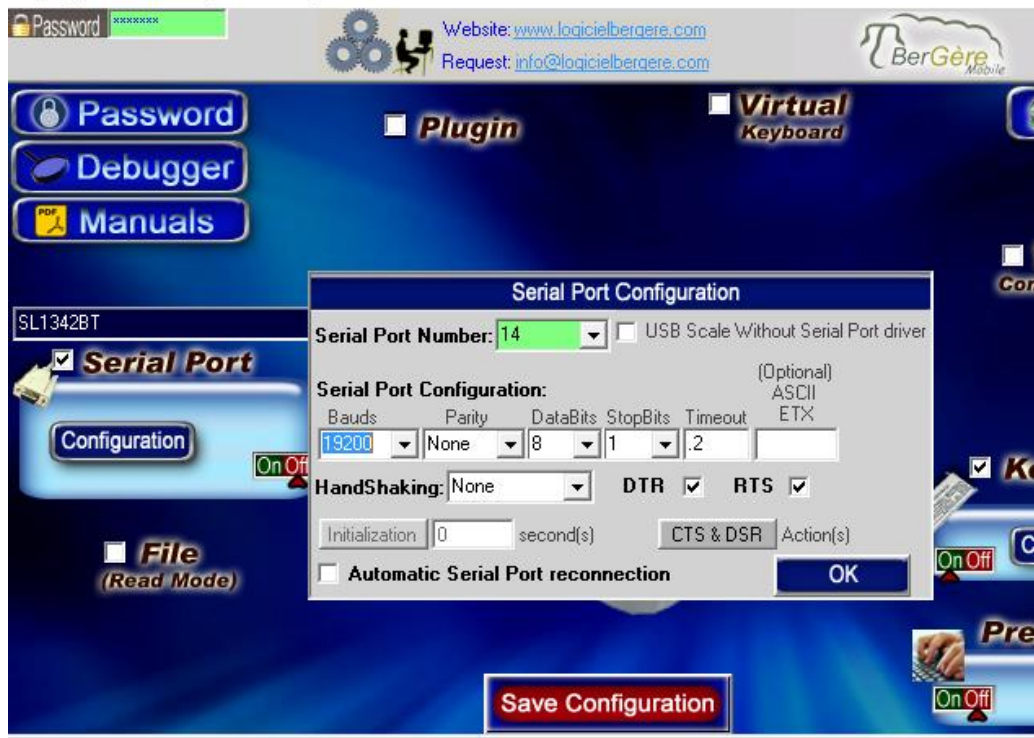
Data bits: 8

Parity: none

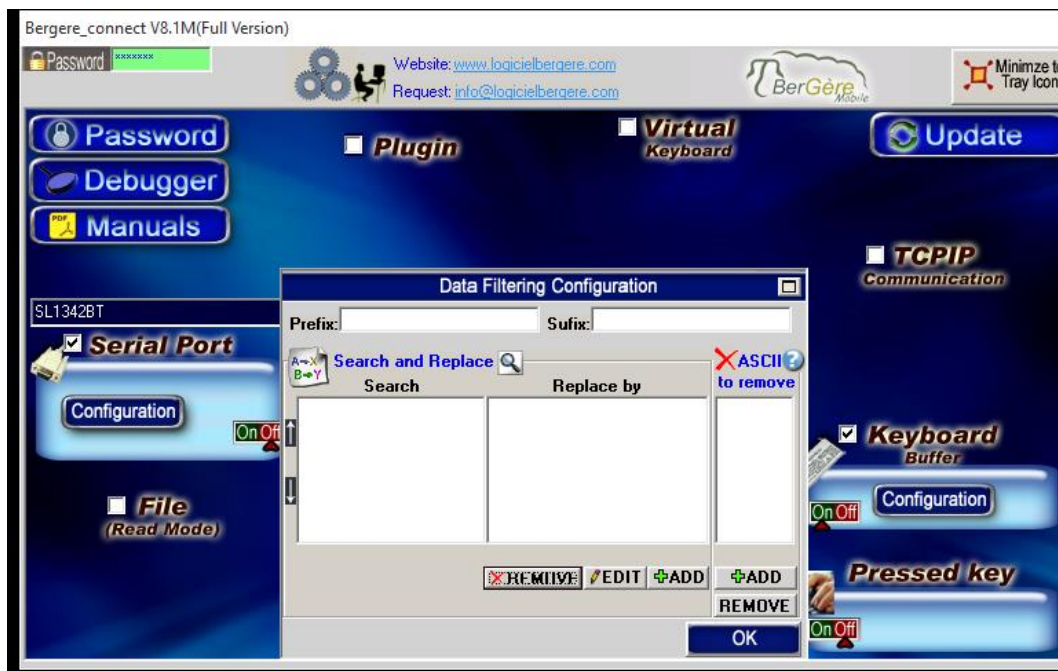
Stop bits: 1

HandShaking: None

Note: when you enter the COM port number, the bottom of screen should turn green, indicating that the port is available and is connected. If the field remains red, connection is not established and it will not work.



- Click "OK" to turn over to the main screen of BerGère Connect.
- Click on the button "Configuration" of the section "Data filtering" in the center of the screen and ensure that there is nothing entered in the sections "Search" and "Replaces by". If it is not the case, click on the button "Remove" after having highlighted the writings in order to erase them.
- Click on "OK" to close the control panel



- d) You ensure that the box "Keyboard buffer" of the principal screen of BerGère Connect is checked and that the indicator is set to "ON" (as in the figure below), then click on "Save configuration" at the bottom of the screen then click on the button "Minimize to tray Icon" in the upper right corner of the window to close.
- e) Connect the port of the scale chosen for connection to the PC and to the USB of the tablet and launch EweManage to begin your weighings.




Connection of Tru-Test scale XR3000

Scale XR3000 is connected on the computer only by a "serial" cable to 9 connectors (DB9) on the scale which must itself be connected on another cable to convert the serial protocol to USB. The bluetooth port of the scale is used to connect the RFID reader (stick reader) as only one bluetooth channel is available on this scale, it will be already busy by the reader. Thus:

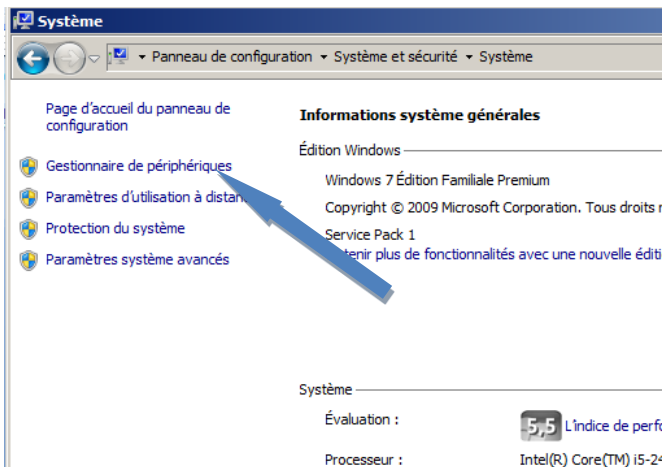
At the scale: To connect your scale, you will need to use one of the two communications port of the scale and to define this port as such.

On your PC: You must install on your tablet, the software (provided on the site of Gallagher or your key USB of BerGère Mobile PC) software "USB to serialdriver..."

 UsbToSerialDriver_v1.9.0.exe	2015-07-09 14:37	Application	3 172 Ko
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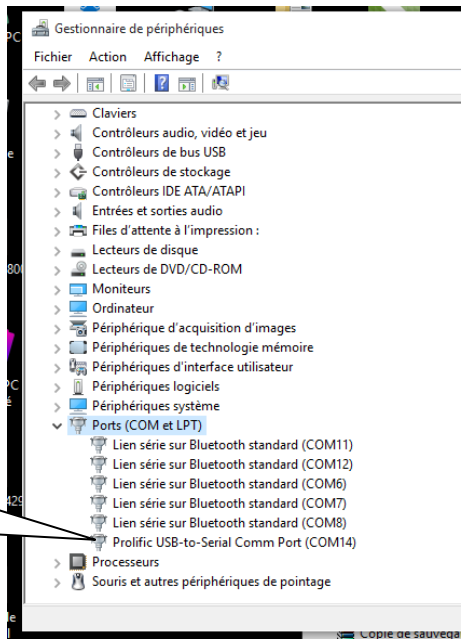
Who allows to connect your port USB on the tablet as a communications port.

By reaching the peripheral manager of your tablet (this PC and Properties system):



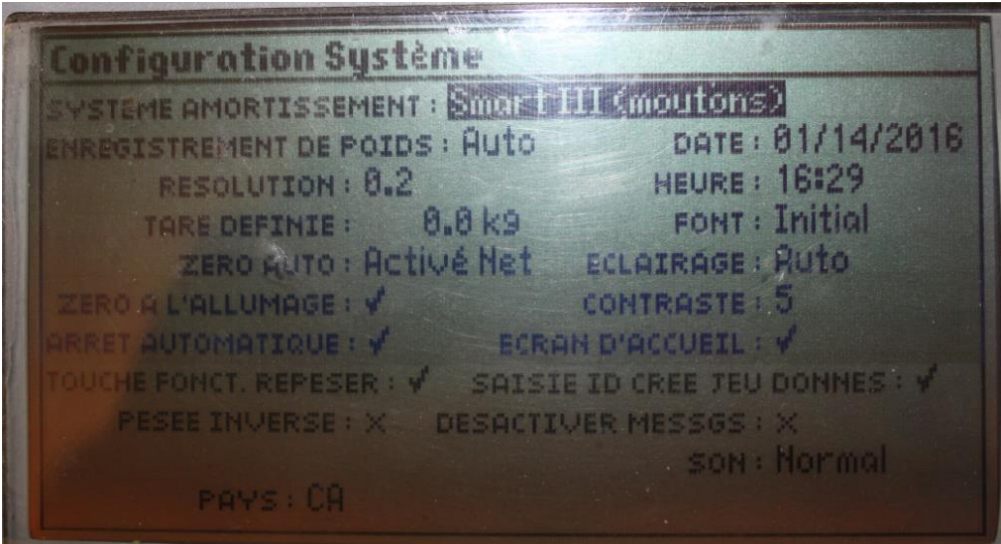
Under the COM Port tab, you will be able to identify the COM port number used by port USB of your PC on which your scale will be connected. (cables must be connected in order for the PC or the tablet to identify the port)

Identify the number of the port COM used by the identification "USB to Serial "COM port, in this example No 14



Configuration of XR3000 scale

Note: following information is consequent with the configuration of the stick reader in bluetooth mode. With your scale, while clicking on "Setup", the figure below shows what would appear on the screen of the scale. Make sure you check IDE (Tag number) in the right-hand side section as well as "Prompt" on the left. **IMPORTANT: uncheck all the other fields.** Stil in "set up", choose "System" and to put the mode "Record of weight" at "Auto".



Then, always in Set-Up mode, select the window "SERIAL".

Put the exit Printing at CON2 to avoid to interfere with the data output
Put the value of "Exit weight" active (check) and select the following parameters:

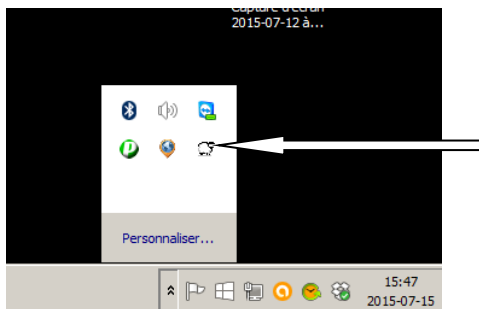
- "CON1"
- RS232 Xon/Xoff 9600 bps
- Output weight weight: "& Ops data recording "

Check "CON 1 input" at "X" to disable it and
Check "CON 2 input" at "X" also to disable it



Connect your cable on COM 1 on the scale head. You must use a NULL MODEM cable and an USB adapter to connect to the PC. (or an adapter USB null modem). *The cable of adaptation USB is normally not provided with the scale.* If you buy one of them, it is suggested getting to you a model with the FTDI "Chip set" and ensure you that it is compatible with your version of Windows.

At your tablet/PC, open " BerGère Connect" while clicking on the suitable icon



Enter "bergere" as password and click on the button "Configuration" associated with the Serial Port:



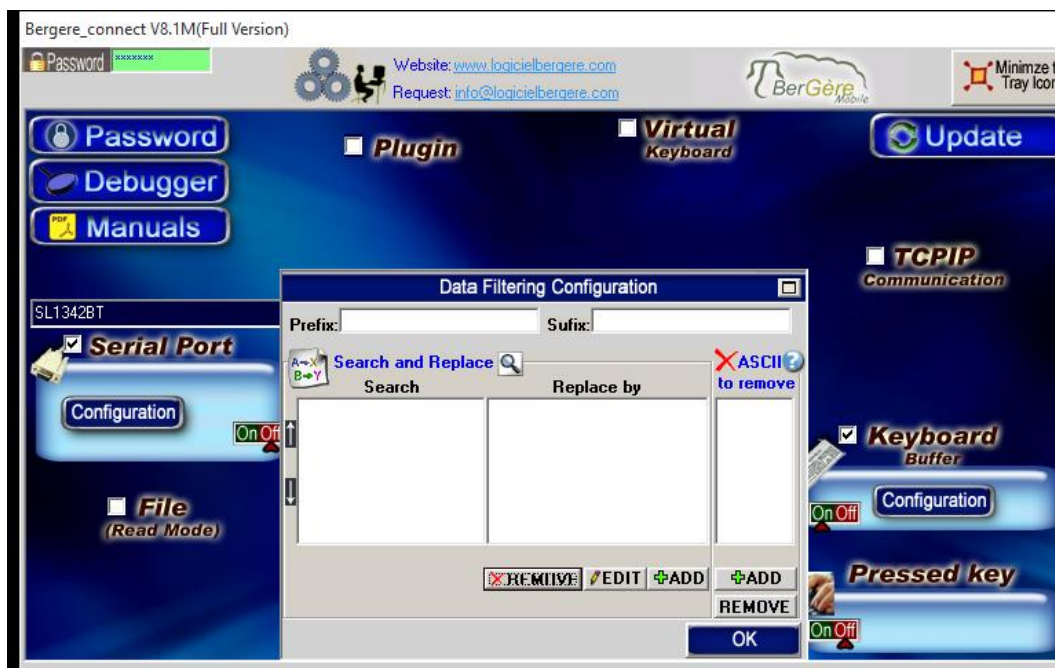
a) The configuration of the serial port, enter the speed parameters as what follows:

Speed: 9600 bits/s - entered the "Bauds" section
Data bits: 8
Parity: None
Stop bits: 1
Time-out .2 (value by default)
HandShaking: Xon/Xoff

Note: when you enter the COM port number, the bottom of screen should turn green, indicating that the port is available and is connected. If it remains red, connection is not established and that will not function.



- b) lick "OK" for the main screen of BerGère Connect screen.
- c) Click on the button "Configuration" of the section "Data filtering" in the center from the screen and ensure you that there is nothing recorded in the sections "Search" and "Replace by". If it is not the case, click on the button "Remove" after having highlighted the writings in order to erase them.
- d) Click on "OK" to close the control panel



- e) Check the box "Keyboard buffer" of the main BerGère Connect screen and make sure that the indicator is "ON" (as in the figure below), then click on "Save configuration" at the bottom of the screen, then click the button "Minimize to tray Icon" in the upper right corner.
- f) Connect the port of the scale chosen to the PC and the USB to the tablet and launch the application EweManage to begin your weighings.

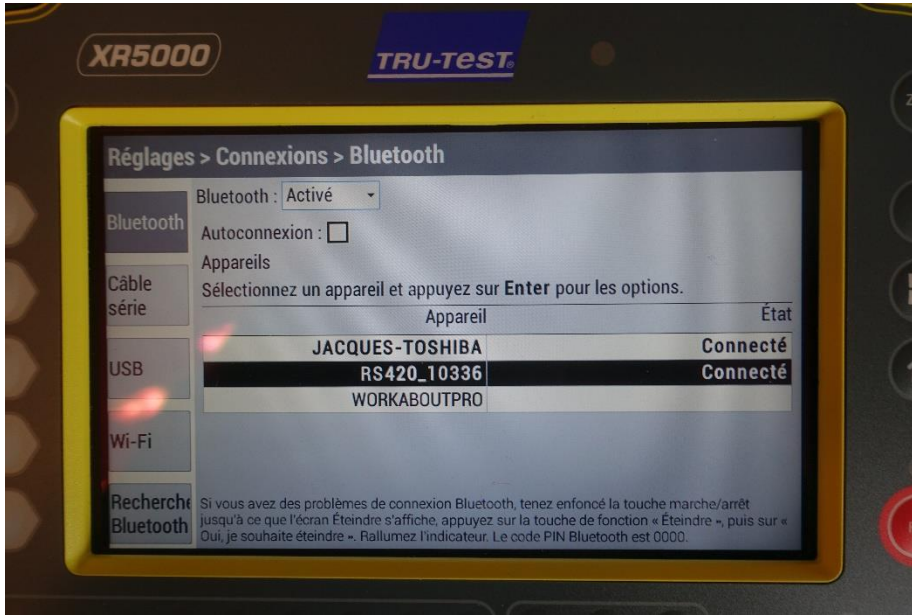


Connection of scale XR5000 of Tru-Test

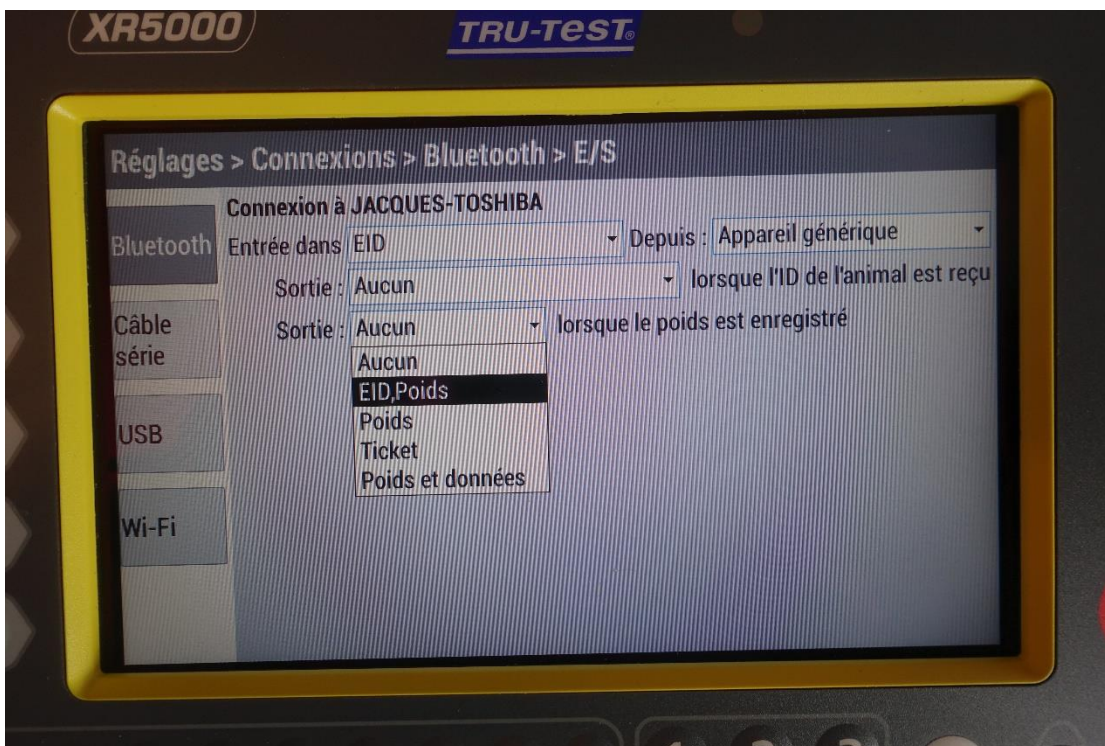
Contrary to model 3000, the 5000 has 2 bluetooth communication channels, one USB port and a traditional serial port. One can thus connect the scale to the PC by one of these 3 means even if a Bluetooth connection is made with the RFID reader.

Here we indicate how to make connection in bluetooth mode, using the second bluetooth channel of the scale.

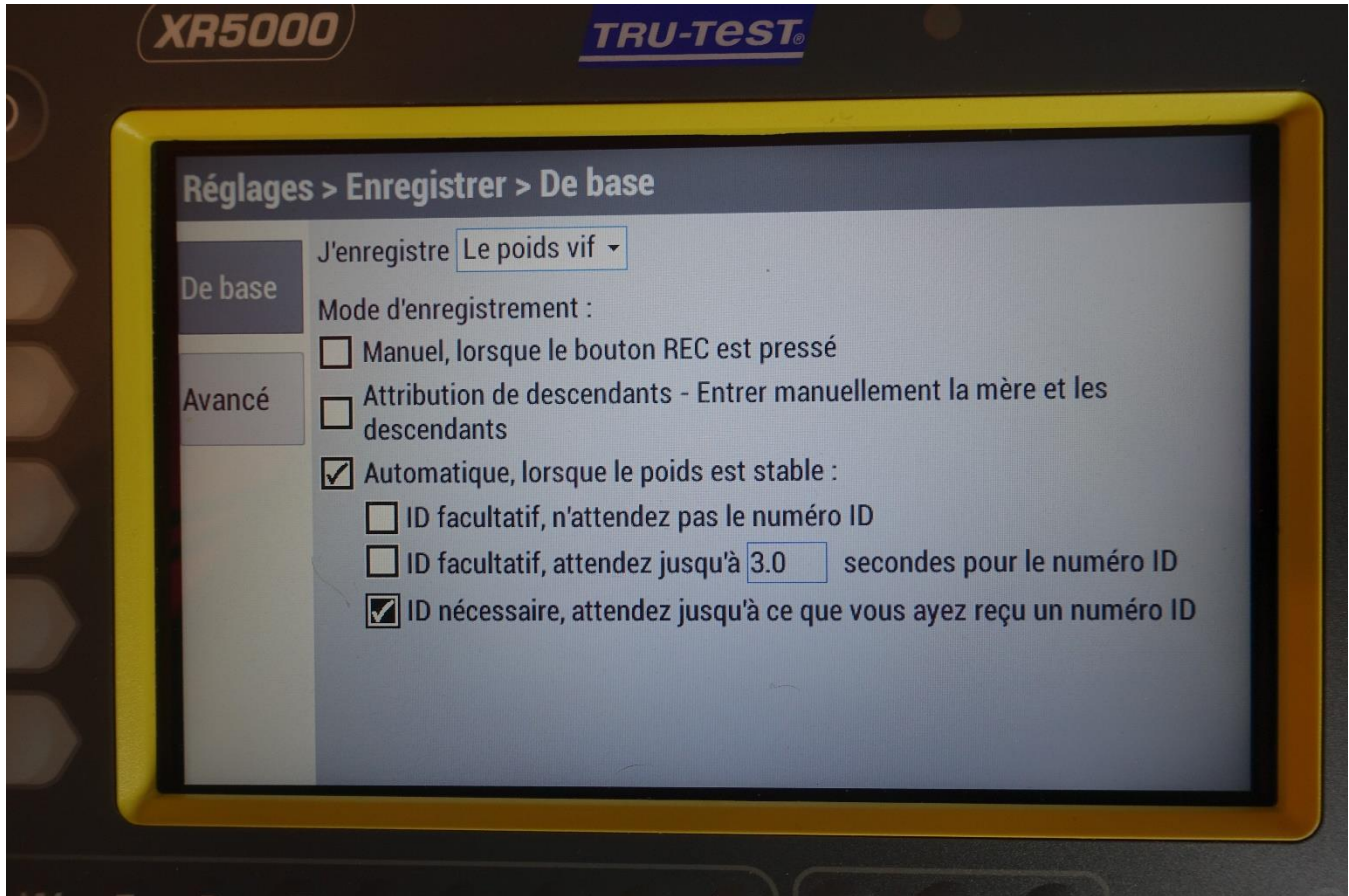
- 1) Reach the menu of configuration bluetooth by the menu "settings" then "Connections" and finally "Bluetooth". At your computer, activate the bluetooth mode and the function which makes it possible to connect new bluetooth devices. At this time, the scale "will discover your PC" (on the figure which follows the PC Jacques-Toshiba). When your PC requires it, enter the coupling code "0000".
- 2) You will note in the figure which follows that as much the PC that reader Allflex RS420 are connected in Bluetooth mode



- 3) You must configure the port to send towards BerGère the tag numbers as well as the weight. With this intention, highlight the name of the PC and hit "Enter. At the configuration screen, choose "None" with the line "When the ID of the animal is received" and "EID.Weight" at the line "When the weight is recorded" such as in the following screen.



4) Finally, you must configure the recording adjustments of the scale as follows:



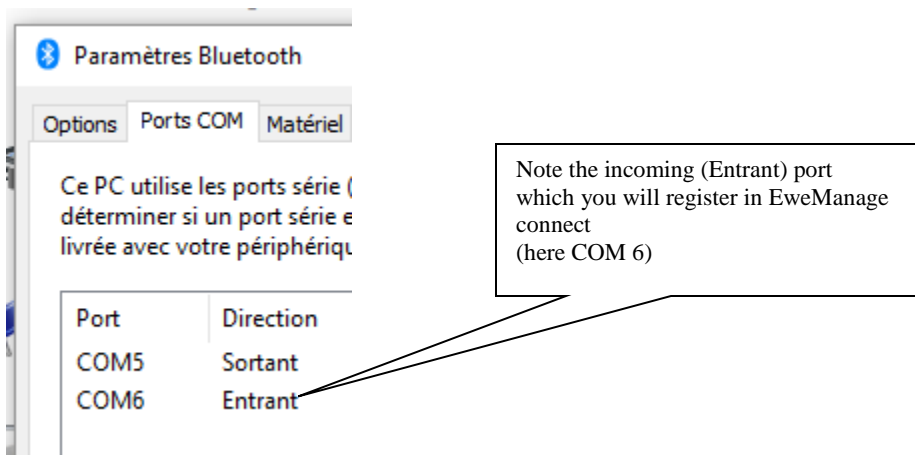
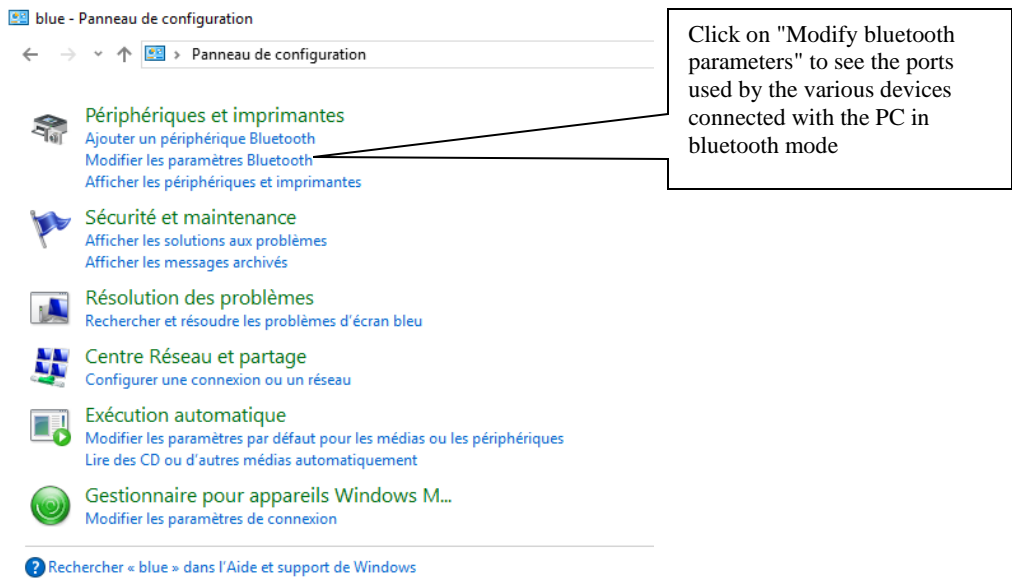
Now that the scale is configured and connected in bluetooth mode, you must configure the software BerGère connect to receive the data of the scale in your EweManage application.

5) At the control panel of your PC, enter "Bluetooth" in the search box top right corner. You will have the screen which follows.

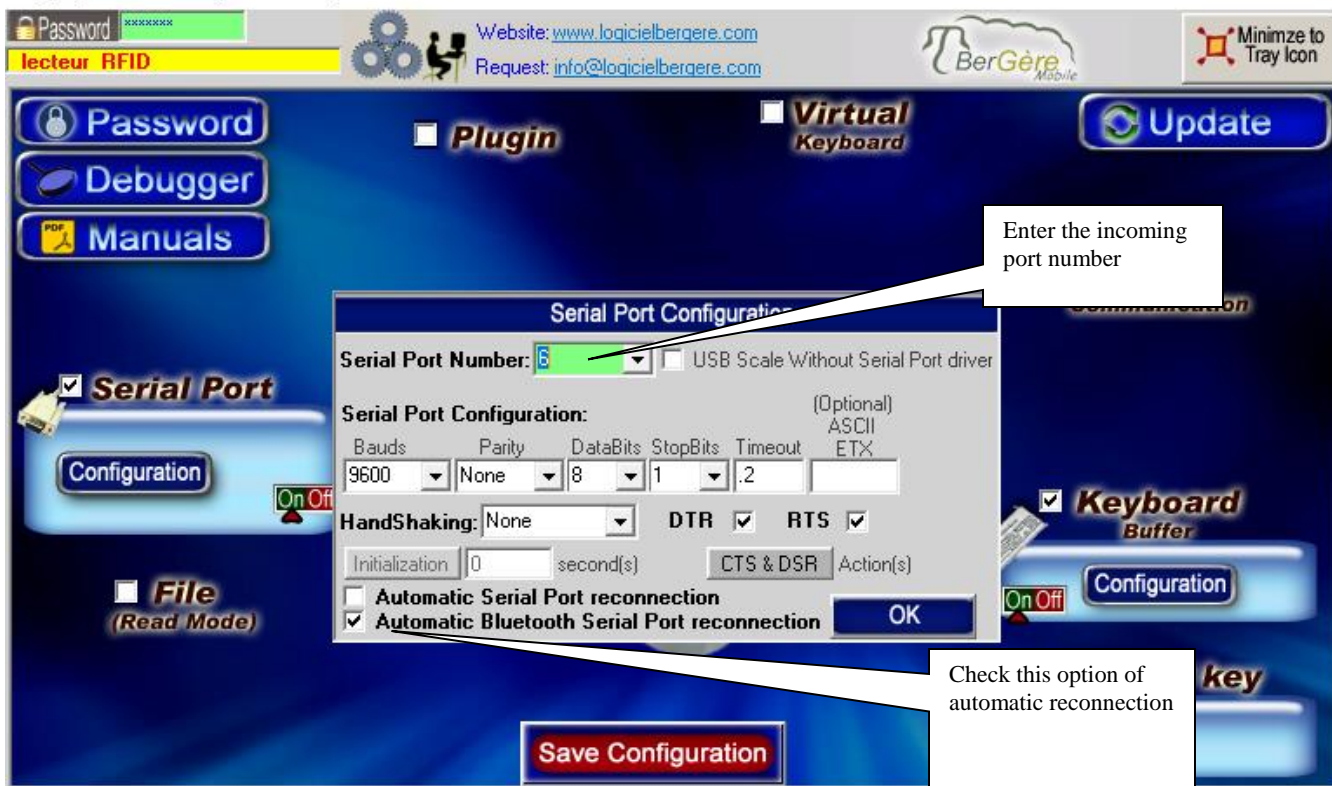
Click on the line " modify bluetooth parameters " to have access to information concerning the COM ports used by the bluetooth devices connected to your PC. Identify those of the XR5000 and note the number

Incoming port

Note: In the case of the connection of the scale by bluetooth, we use the incoming port contrary to the connection of an RFID reader (RFID reader) who always use the Outgoing port.



- 6) Launch the application " BerGère Connect " and enter the password "bergere" to have access to the configuration. Check the box "Serial port" and click on the button of configuration of this section. Proceed as for scale XR3000 in the preceding section, but check the option "Automatic Bluetooth Serial Port reconnection" which allows the scale to reconnect automatically.
- 7) Make save OK then "Save configuration" for the whole
- 8) Make sure that the box "Keyboard buffer" is checked and that the button close to that of the configuration is "ON" for the option Keyboard buffer (but not for Serial port)




Your scale is ready to use with EweManage. The final configuration of BerGère connect is as follows:



You can click the button "Minimize to Tray icon" in the corner higher right to minimize the application.

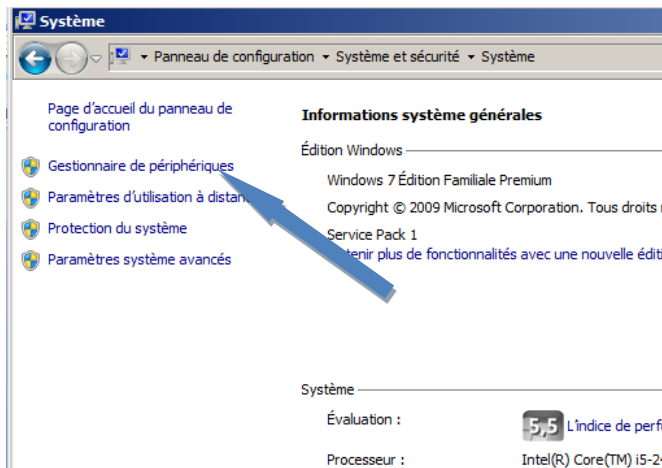
Connection of the Tru-Test EziWeigh7 scale

To connect your scale, you will need to use one of the two Com ports and to define this port as such. Moreover, you must install on your tablet, the software software "USB to serialdriver..." that comes with your serial to USB conversion cable Ex:

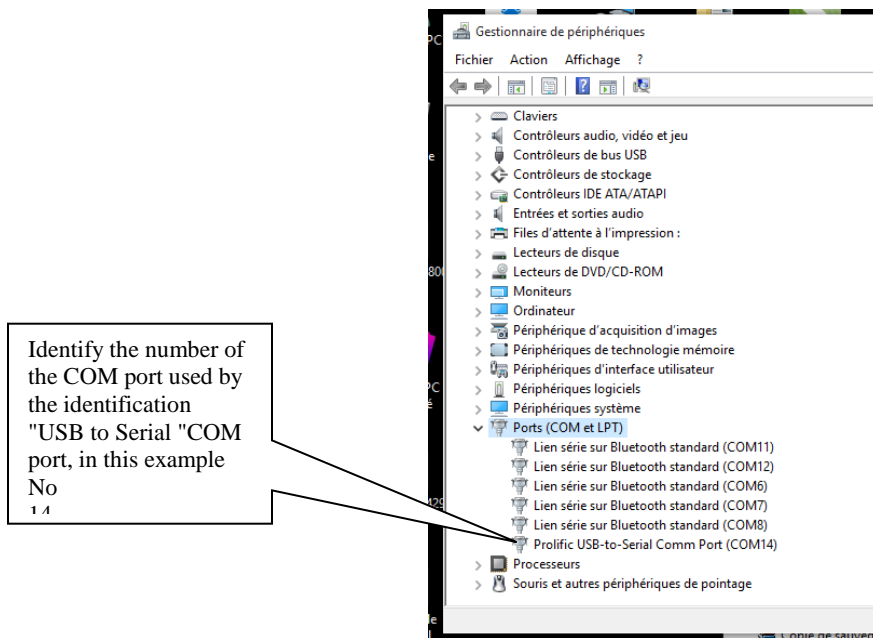
 UsbToSerialDriver_v1.9.0.exe 2015-07-09 14:37 Application 3 172 Ko

Who allows to connect your port USB on the tablet as a COM port.

By opening the manager of peripherals of your tablet (this PC / system Properties):



Under the COM Port tab, you will be able to identify the number of the COM port used by port USB of your PC on which your scale will be connected.



Configuration of the scale

Note: following information is consequent with the configuration of the stick reader in bluetooth mode. Your RFID reader must be able to operate in "Master" mode to communicate with the Eziweigh7 scale (see your TruTest handbook).

To activate the function allowing to record the weights in EweManage or EweMaage Mobile,

1. At your scale screen, click on the button "menu"
2. Press 3 times on the arrow downwards to have "SET ups" on the screen
3. Press "Enter"
4. Press 6 times on the arrow downwards to have the menu "auto save" and press "enter" until the screen displays "Auto save (With ID) »
5. Click "esc" until your return to the principal screen

To to connect your scale to your tablet or your PC, you will need the following cables:

- 1 Trutest "serial" cable - Trutest product code 818324



EziWeigh to D9 Serial Cable

Use to connect EziWeigh6/7 indicators to other EID readers.

- 1 "Null modem" cable
- 1 adaptation cable Serial to USB available in several of electronic equipment stores. I recommend to you a cable with the Prolific "chipset" or equivalent

Note 1: although your scale comes with a cable having a USB connection, this cable cannot be used to connect your scale to read the data.

Note 2: To make a weighing session, your scale must be charged up because the cables mentioned above use the central connector on your scale which is also used to recharge the scale.

All other adjustments for connection with BerGere Connect are similar to those of XR 3000 scale in the preceding section.

Connecting the TePari drencher

Configuration of the TePari drencher

The dosing gun is connected like an access point on a WIFI network. Initially, configure your gun in the following way:

- Power the gun
- Click the button of menu until obtaining WIFI menu. Ensure that the WIFI is active by clicking the arrows upward or downward
- Press at the same time on the buttons of statistics (in left bottom) and "P"
- The screen displays "Static IP" followed by "dh", "ap" or a number from 10 to 99. Click until the screen displays "ap"
- Click the menu button to confirm the changes and wait for the end of the configuration indicated by the 4 bars on the window

Configuration of the PC:

Click on the icon to connect networks. When you see the network called "Drench_gun", made connection. Details of connection, if they are available will be:

SSID: Drench_Gun
IP 10.10.10.1
Port 2000

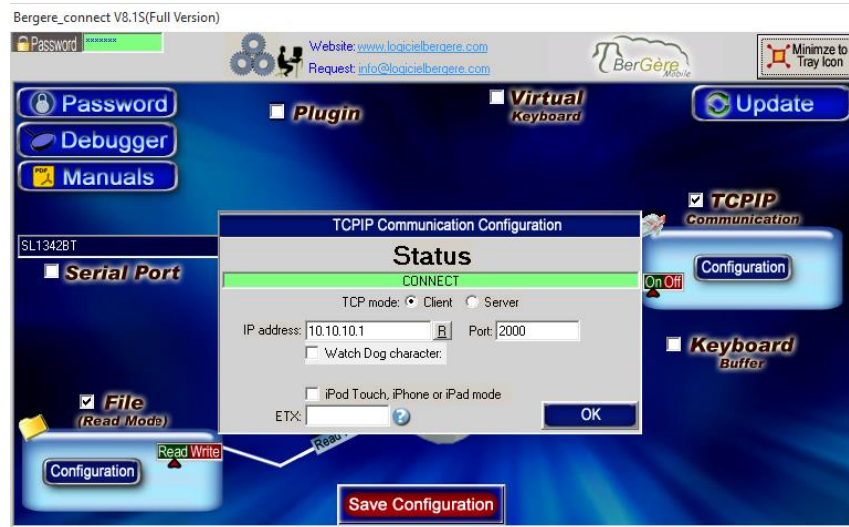
Configuration of BerGere Connect

Launch "BerGere connect" and enter the bergere password to reach the configuration screen.

1. If a configuration already exists, take down all the active boxes.
2. Then, check TCPIP (communications) and to put the communication at "ON". Then, check "File" (read mode) and activate the "read" mode. You should have the image which follows.



3. Configure the TCPIP port by clicking on the configuration button.
 - a. Enter address IP 10.10.10.1
 - b. Enter the port number 2000. Status "CONNECT" will appear in green
 - c. Click "OK" to confirm the configuration



4. Configure the name of the file that will contain the quantity calculated by clicking on the "File" button
 - a. Use the button of research to identify the file "TePari.txt" which is in your Bergere_2 file. Locate it in the dialog which appears when you click on the search button. Once the file is found, the indicator "present" appears in green in the window.
 - b. Click on OK to close the window
5. Click on "Save configuration" then on "Minimize to Tray Icon" (upper right corner of the window).



Your device is now ready to use

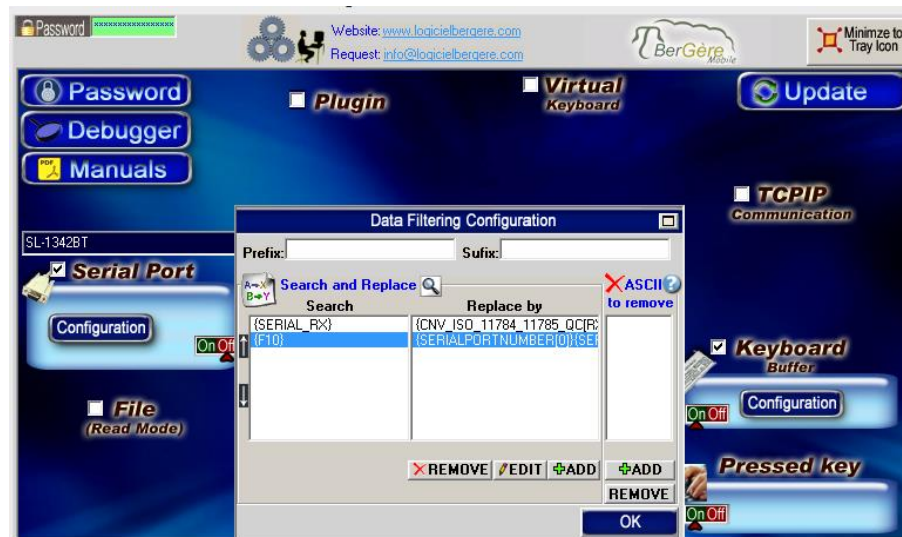
Automatic Reconnexion of the COM port (optional)

If you have to disconnect and replug either your scale, or the RFID reader, it may be that Connect BerGère does not recognize the COM port.

One of the means to give the port in services is to close BerGère Connect (while entering END in the "Password" field and to start the application again. On the other hand, you can also assign one of the function keys (Fxx) as key being used to reconnect a device on a serial port. The next section indicates how to proceed.

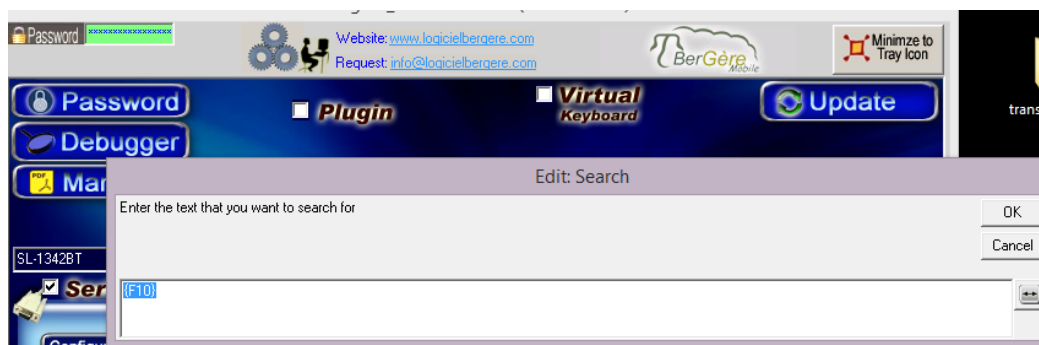
Assignment of an automatic key F for reconnexion.

First of all, you must know on which port is connected either your bluetooth device, or your scale. This is explained in the preceding sections of the document. Then, reach the control panel of the section "Data Filtering" of the main BerGère Connect screen.

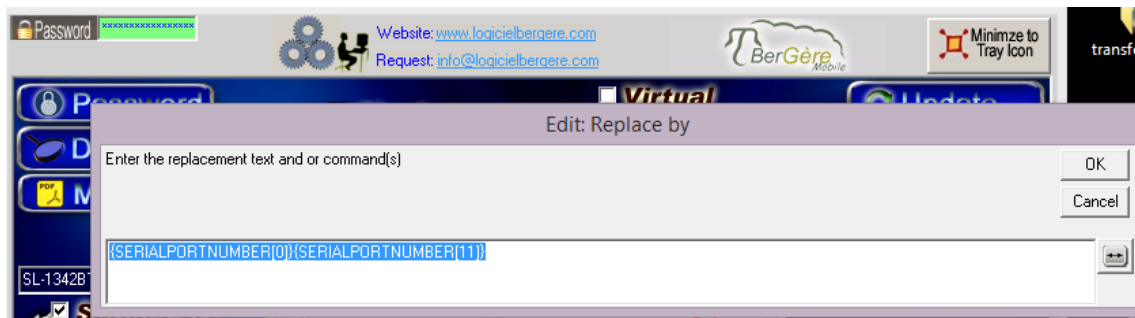


Let us suppose that we wish to assign the F10 key of your keyboard to the opening of the COM port 11 of your device. You will have:

- 1) To enter the command {F10} the "search" section



- 2) Then in the section "Replace by": {SERIALPORTNUMBER [0]} {SERIALPORTNUMBER [11]}



- 3) Then, click OK and close the configuration section. At the section "Keyboard Buffer", click "ON" at the "Pressed key" section which indicates to the software to activate the command when the F10 key is pressed:



- 4) Finally, click on "Save configuration" then on "Minimize to Tray icon"
- 5) To reactivate the port number 11 if such is the need after having replugged your device following a disconnection, simply press the F10 key of your keyboard. Wait a few seconds and you will see connection being restored (the indicator bluetooth your RFID reader or RFID reader would light up)

Serial adapter cables (9 pins with USB)

To connect an electronic scale to BerGere (or BerGere Mobile), you will have to use a serial port of your scale (except for the XR5000) which uses a serial protocol named SPP. If you have already a cable which a serial end (9 pins) and the other a USB connector, that does not necessarily mean that your cable provides protocol SPP necessary to read the data of a scale. The procedure which follows will help you identify if your cable is really a serial adaptor cable or not.

Also note that it can happen that the end of your scale has either a serial connector (also called RS-232 or 9 pine) or a male connection. If you buy a serial adaptor cable, it may be that the connection of 9 pines is also male. You will then need a cable called "null modem" (or a small adapter of the same name) to make connection between the port of the scale and the serial adaptor cable.

Firstly, note that a serial adaptor cable contains, in the 9 pins connector, a succession of electronic components normally nonvisible which allows the change of the protocol. This also means that a serial adaptor cable must be active by means of a pilot (driver) who can come either on CD provided with the cable, or on the site of the manufacturer. You must install the pilot Before you use the cable.

The procedure which follows shows how to identify if the cable is really a serial adaptor cable, and how find the communications (COM) port (port COM) which uses the cable to communicate with your computer, therefore with the BerGere Connect software.

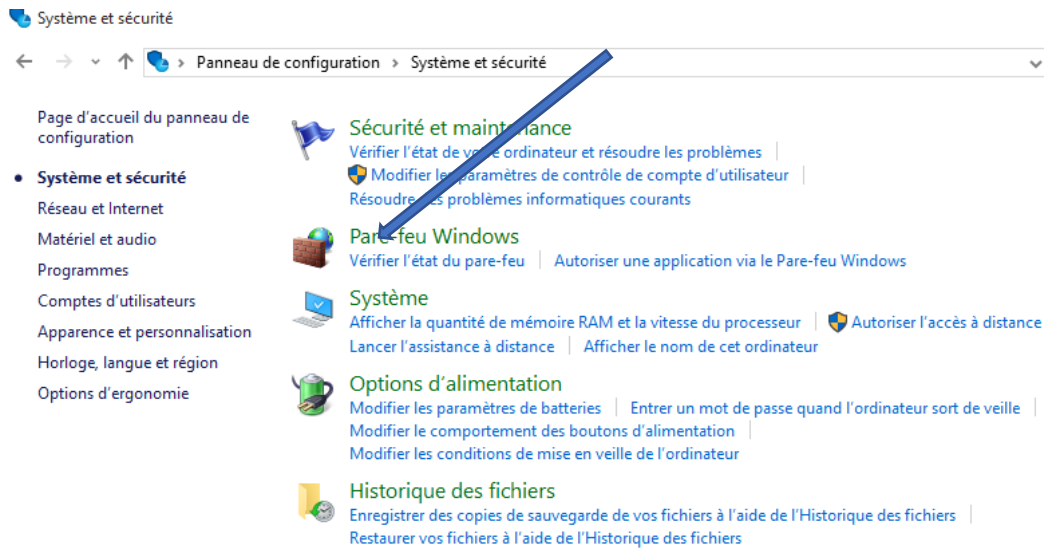
Identification of a serial adaptor cable:

How to identify that your cable DB9 with USB is a serial adaptor cable with USB to connect a scale to BerGere connect to capture data in the course of weighings

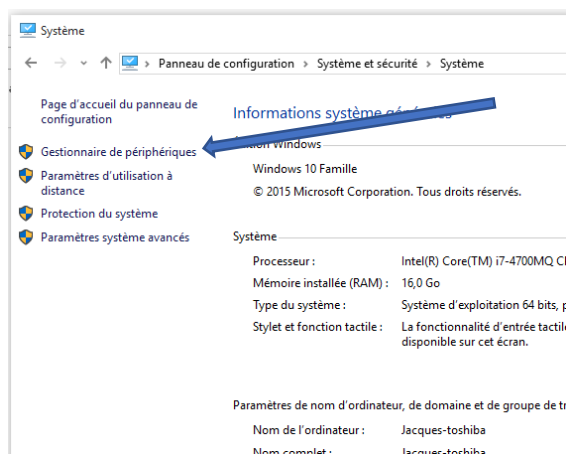
- 1) Open the Windows Control panel (right click on the Windows symbol in Windows 10)



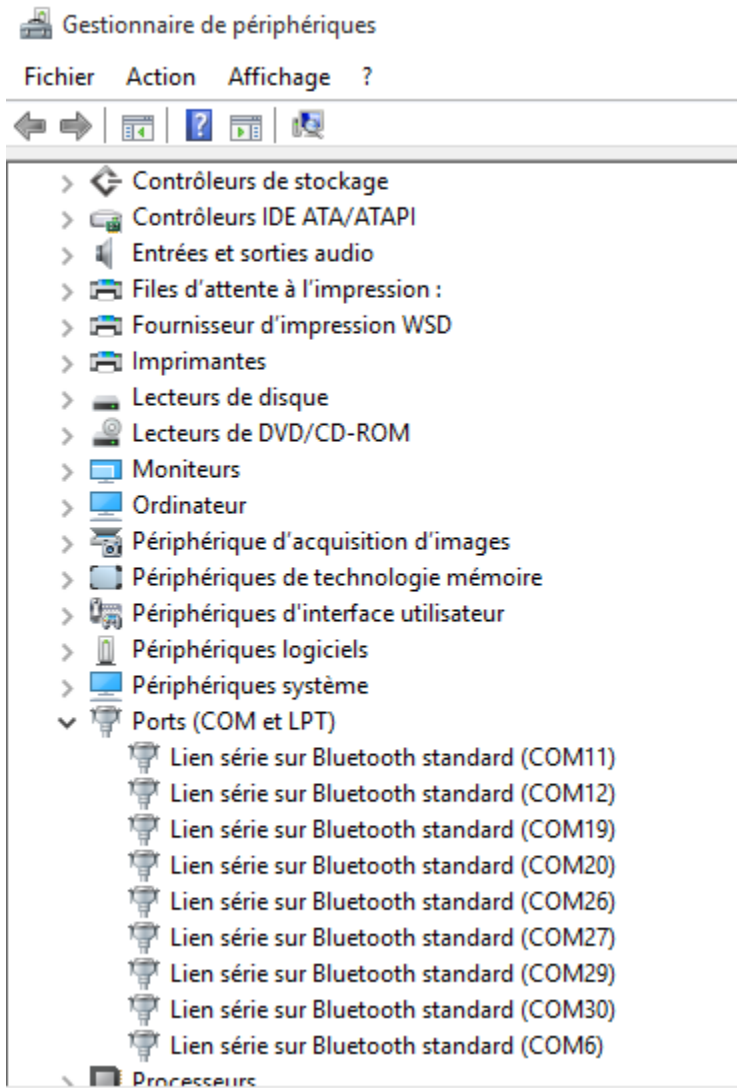
2) Select "System and security" then "System"



3) In the menu "System", select the " Peripherals Manager "



4) Open the Ports section (COM. And LPT)



- 5) Notice how much ports are open. Now, connect your cable in an USB plug of your computer (not necessary that it is connected with the other end on a device). Wait one or 2 seconds, there will be a short flickering of the screen.
- If an additional port appears, you have a serial adaptor cable. It can be used to connect a serial port of an electronic scale for example to BerGère connect to make readings in the course of weighing (SPP protocol)
 - If no additional port appears, the cable is a simple USB connection cable and can be used to transfer from the files from your scale to your computer, but cannot be used as a "communication" cable for weighings.

To configure at the same time a RFID reader/scale and the TePari drencher

It can happen that you must configure an input of reader (or an input of scale) and a connection with the TePari drencher simultaneously. To do this, you must activate two instances of BerGere Connect.

To use more than one port you can activate several instances of this software.

Follow this method:

bergere_connect.exe/#INSTANCE_NOM#

For example to control 2 ports, start the software with the following syntax:

Example: Creation of the RFID_reader instance

- Create a short cut on your desktop which starts BerGere connect

Properties of the short cut:

-In the Targets field enter:

"C: \ Program Files \ logicielbergere \ bergere_connect.exe"/#RFID_reader# -

To leave Connect BerGere with this short cut

Example: Creation of the Te_Pari_Drencher instance

- Create a short cut on your desktop which starts BerGere Connect

Properties of the short cut:

-In the Target field to enter:

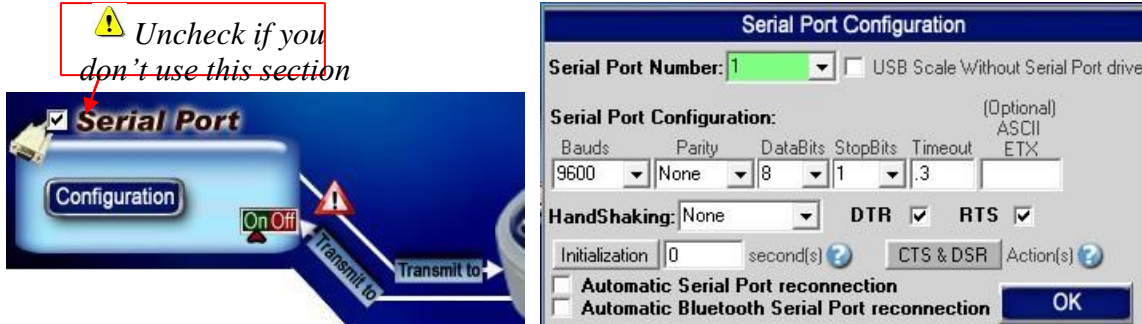
"C: \ Program Files \ logicielbergere \ bergere_connect.exe.exe"/# Te_Pari_drencher# - To leave Connect

BerGere with this short cut

*Each instance will have a configuration different according to the type of reader and the second according to the configuration necessary for the drencher. You must set the configuration necessary for the drencher.

* Note: do not forget to press on the button "Save Configuration" to record your changes.

SERIAL PORT DESCRIPTION – optional advanced information



You can redirect a standard RS232 serial port data interface to any direction.

Communication through Serial Port connection is very simple with Bergere Connect. The software can redirect the data receive from the Serial Port to the TCP port, File and or to the Keyboard buffer depending what switch is set to ON. * See possible commands section

The switch ON/OFF:

If position is ON, the data received by the peripherals: File, TCP, Keyboard and Virtual Keyboard are automatically redirect to this serial port.

If position is OFF, the data received by the peripherals are not redirect to this serial port.

The Serial Port number:

Use this field to chose the serial port number (*where your peripheral is connected*). If the back color field is GREEN, it's because the COM is present and available. * To disable the serial port enter: 0

The Serial Port Configuration:

Use this section to sets the baud rate, parity, data bit, stop bit, timeout (*in seconds*) and *ASCII ETX* parameters.

Timeout: The timeout option is optional. Perfect to received the packet in one shot.

* Example if the timeout is .2 then the serial port wait during .2 second to send the string in one shot.

ASCII ETX: The ETX (*end of text character*) option is optional.

Perfect if your string ends always with the same character.

*ASCII characters from 0 to 255.

*For example: If your string ends with a ENTER:

Bauds	Parity	DataBits	StopBits	Timeout	ETX
9600	None	8	1	0	13

*To receive the data only if they are different, set timeout option to 999 example:

Bauds	Parity	DataBits	StopBits	Timeout	ETX
9600	None	8	1	999	13

* To receive the data only if they are different or if the **X** delay is exceed, set timeout option to **999.x**

Example **3** seconds:

Bauds	Parity	DataBits	StopBits	Timeout	ETX
9600	None	8	1	999.3	13

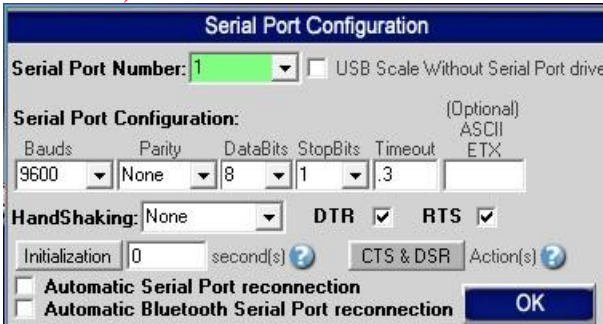
* To sampled a continuous string every X seconds use this syntax 888.x Example for every 3 seconds use: **888.3**



SERIAL PORT DESCRIPTION

(continuation)

Uncheck if you don't use this section



The image shows a 'Serial Port Configuration' dialog box with the following settings: Serial Port Number: 1, Bauds: 9600, Parity: None, DataBits: 8, StopBits: 1, Timeout: .3, ETX: (empty), HandShaking: None, DTR: checked, RTS: checked, Initialization: 0 second(s), CTS & DSR: (empty), Action(s): (?), Automatic Serial Port reconnection: unchecked, Automatic Bluetooth Serial Port reconnection: unchecked, and an OK button.

The HandShaking:

Use this field to chose the serial port hand shaking protocol configuration.

None: No handshaking

XonXoff: Software XON/XOFF handshaking

Rts: RTS/CTS (Request to send/ Clear to send) hardware handshaking

RtsXonXoff: Both request to send and XON/XOFF handshaking

The DTR/RTS:

You can activate or deactivate the hardware line:

DTR, Enable the data terminal ready line.

RTS, Enable the request to send line.

The Initialisation button:

If the file: "C:\BillProduction.CFG\init_serial.txt" is present, then the contents of this file will be sent automatically:

- At startup.

- If you click to the button initialization.

- At interval of X second(s) (0 = disable).

* Enter the interval in the field beside the button 'Initialization' ... perfect to poll a peripheral at fixed interval.

* To control the interval see the command: SERIALINIT

* To detect USB plug/unplug save this file
http://www.billproduction.com/INIT_SERIAL.TXT to your
 C:\BillProduction.cfg\INIT_SERIAL.TXT and set interval to: 1 second(s)

* To send special ASCII character you can use this sequence in the file: {ASCII:XXX}
 Example: Hello{ASCII:13}{ASCII:10}

The CTS & DSR button:

With the input pins CTS and DSR of your serial port you can generate action in your computer.
 Example: If you put a hardware switch between the pin 7 and 8 of your serial port DB9. In the configuration CTS (action push) you enter {F1}. With this configuration when you activate the hardware switch, F1 is simulated in your computer.

The Automatic Serial Port reconnection:

With this option the software detect automatically if the peripheral is disconnected or reconnected. Use this option with USB or Virtual Serial Com Port devices.

The Automatic Bluetooth Serial Port reconnection:

With this option the software detect automatically if the Bluetooth peripheral is disconnected or reconnected. Use this option with Bluetooth and USB devices.



TCP CONNECTION DESCRIPTION

Uncheck if you don't use this section



You can redirect a standard TCP connection to any direction.

Communication through TCP connection is very simple with this software. The software can redirect the data receive from a TCP connection to the Serial port, File and or to the Keyboard buffer depending what switch is set to ON.

* See possible commands section The Status:

CLOSE, There are no TCP connection.

CONNECT, The connection is establish with your peripheral.

ERROR, Can't establish the connection. *You can see this error if you place your mouse cursor to the status field* * If the connection is lost, the software retry automatically to re-connect The IP address:

In this field enter the IP address of your peripheral.

* Make sure that your TCP peripheral address is in the same range that your computer IP address.

The PORT:

In this field enter the TCP PORT that use your peripheral.

The R button:

Use this button to RESET the TCP connection.

The Watch Dog character:

Use option this option to send a character after every 15 seconds to detect connection loss.

The mode Client or Server:

Client Mode, in this mode the software try to open the connection with your TCP peripheral. Server Mode, in this mode the software switch the TCP port in listen mode and wait that your peripheral open the connection. **Support multiple TCP connections in Server mode.*

The ETX:

In this field you can enter the optional ETX (*end of text character*) if your string ends always with the same character. **You must enter an ASCII value from 0 to 255.*

The iPod Touch, iPhone or iPad mode:

http://www.billproduction.com/iPod_iPhone_iPad_TCPIP_Remote_Control/index.html

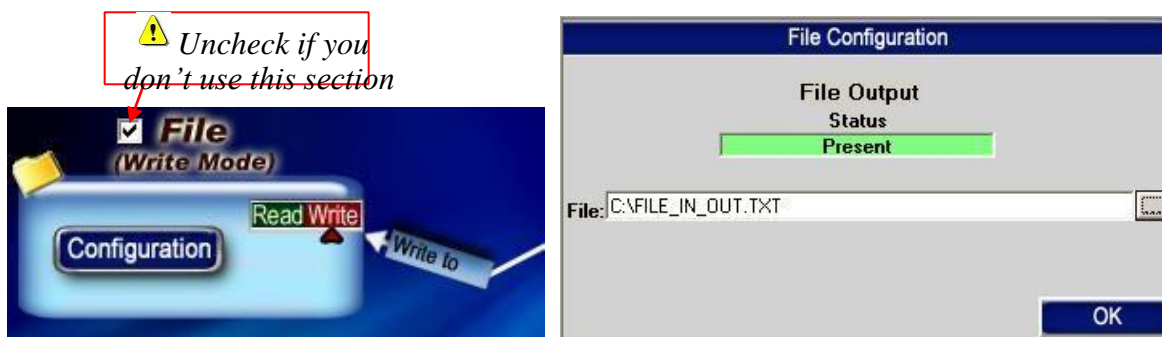
The switch ON/OFF:

If position is ON, the data received by the: File, Serial port, TCP, Keyboard and Virtual Keyboard are automatically redirect to this TCP connection.

If position is OFF, the data received by the peripherals are not redirect to the TCP connection.



FILE CONFIGURATION



You can redirect a standard FILE to any direction.

FILES COMMUNICATION

Communication through file is very simple with this software. A file can contain what you want (*see possible commands section*). The software check the file, and when this file change the software redirect the change to the Serial port, TCP and or to the Keyboard buffer depending what is set to ON.

The Status:

Present, The file is present.

Not Found, This file is not present in this directory.

Error, There are a error in your filename and or in the directory.

The switch Read/Write:

If position is Write, Then the file is in OUTPUT MODE, the data received by the peripherals: Serial port, TCP and Virtual Keyboard are automatically redirect to this OUTPUT FILE.

- To receive each string in a different file, use *DATETIMESEQ.TXT* as a filename.
- To receive data in a file name with *DATE* and or *TIME*, use this syntax in File: *DATETIMEF,C:\BILLPRODUCTION.CFG\,YYYY-MM-DD ,HH-MM-SS.TXT*
- To write data in to a Excel File use for example: *C:\BILLPRODUCTION.CFG\myfile.xls*

If position is Read, Then the file is in INPUT MODE, the data received by the file are redirect to the Serial port, TCP and or to the Keyboard buffer depending what is set to ON.

* If “Delete the file after reading” option is enable then the file will be deleted after the redirection.



KEYBOARD BUFFER CONFIGURATION



You can redirect the Serial port, File, TCP port and or the Virtual Keyboard to the keyboard buffer if you set the Keyboard Switch to ON.

** See possible commands section*

The QWERTY option (Default option):

Select this option if you use a QWERTY keyboard.

**If your keyboard is QWERTY you can see just across the letter Q the letters WERTY*

The AZERTY option:

Select this option if you use a AZERTY keyboard.

**If your keyboard is AZERTY you can see just across the letter A the letters ZERTY*

The Universal option:

Select this option for other keyboards or if you do not receive some special characters.

The Target Window Name:

With this option you can activate automatically a target window.

Enter the title of the window where you want redirect the data

* If you enter nothing, the software redirect the data to the current window.

* You can enter just a part of the title, for example if the title is “**my application software**” you can enter just a part of the title for example: **my application**

* *Enter in field Password FFINDER to find your application window title.*

The “Sent data only in this window”:

With this option no data are sent if the Target Window is not in focus.

The U. Case option:

The software can switch all lower case characters automatically to upper case.

The API KB user 32 (ON by default):

If you activate this option the data is sent directly to the Keyboard buffer this method work’s with all kind of applications.

*Usually this option is set to ON.

The Inter-character delay option:

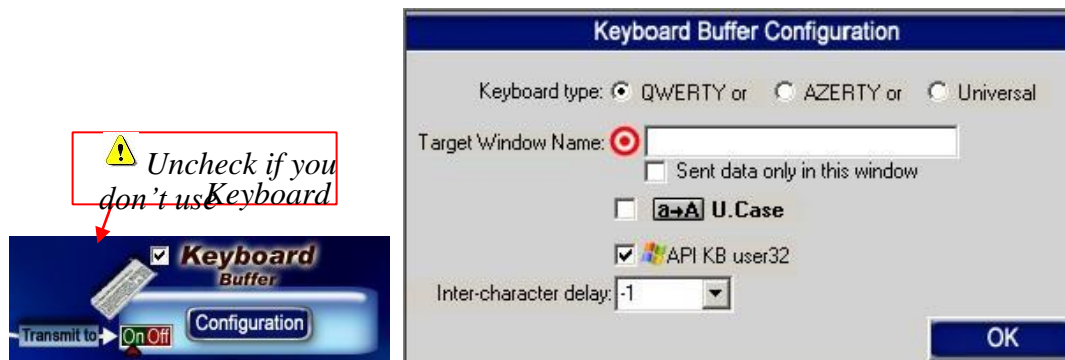
With this option you can change the output inter character delay.

*Habitually you don’t have to change this option (-1 is the fastest value)



KEYBOARD BUFFER OUTPUT

(continuation)

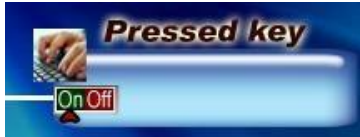


Keyboard Buffer switch ON/OFF:

If position is ON, the data received by the: File, Serial port, TCP, Keyboard and Virtual Keyboard are automatically redirect to the Keyboard buffer.

* Inputs data directly into any Windows programs as if it was typed in using the keyboard.

If position is OFF, the data received by the peripherals are not redirect to the TCP connection.



Pressed Key switch ON/OFF:

If position is ON, the Keyboard pressed keys will be redirected to: File, Serial port, TCP, Keyboard, Plugin and Virtual Keyboard

To receive two events for each key pressed (Key Pressed and Key Released)

Edit Bill Redirect Shortcut properties:

- In the first field (Target) enter:

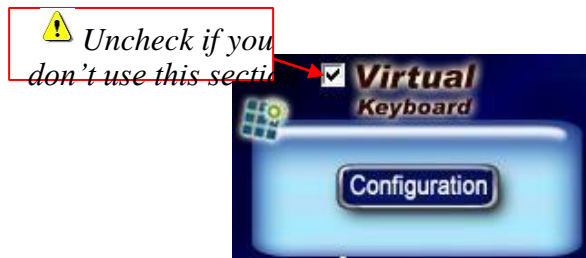
"C:\Program Files\BillProduction\Bill Redirect Serial COM Port to Keyboard Buffer\Bill_Redirect_Serial_to_KB.exe" /KP2EVENTS

- Start BillRedirect software with this shortcut

**If you don't use the section Pressed Key set the switch to OFF*



VIRTUAL KEYBOARD



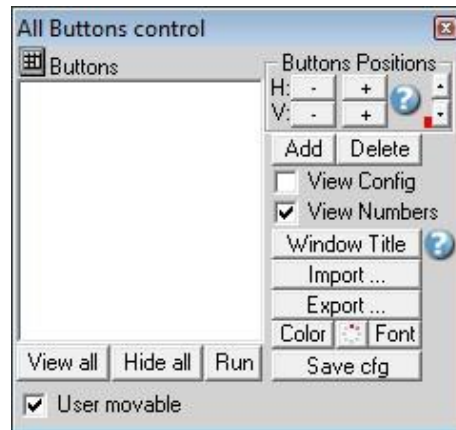
You can redirect each button of your Virtual Keyboard to any direction.

Possibility to create **Virtual Keyboards**, each buttons keys can appears and disappears depending the window you activate. Each button can send data to the Keyboard buffer, TPC connection, Serial Port and or to a file. You can **change or add Buttons on a existing application**, perfect for TouchScreen Application.


Configuration: Use the EDIT option to open the "All Buttons control" window.



VIRTUAL KEYBOARD (All Buttons control)



Buttons list:

Just under “Buttons” you can see the existing buttons list.

View all: Use this option to view all **Buttons list** on the screen.

Hide all:

Use this option to hide all **Buttons list** on the screen.

Run:

Use this option to try the Virtual Keyboard buttons.

User movable:

Use this if you want that the user can move them with the right button of the mouse.

Buttons Positions:

Use this section to change the position of the selected button in the **Buttons list**. * Use the vertical scroll bars to change the moving speed.

Add:

Use this option to add a new Virtual Keyboard Button.

Del:

Use this option to delete the selected buttons in the **Buttons list**.

View Config:

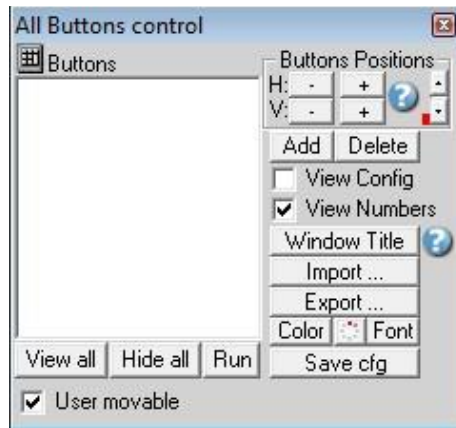
Use this option to show or hide the configuration of the selected button in the **Buttons list**.

View Number:

Use this option to show or hide the number of the selected button in the **Buttons list**.



VIRTUAL KEYBOARD (All Buttons control) (continuation)



Window Title:

Use this option to change the “Window Title” of the selected button in the **Buttons list**.

Option “Window Title” Description: With this option each button of your Virtual Keyboard can appear and disappear when a specific window title is activate.

*Example: If the window title is “Application weight expert Version 1.2b” and in the field “Window

Title” you enter “WEIGHT EXPERT” then each time that this window take the focus this button is visible.

* To enter more of one window title, separate the title name by a comas:

Example: WEIGHT EXPERT, NOTEPAD, PAGE COUNT

* If this the field “**Window Title**” is blank, then the button is always visible. * To hide this button at startup enter : `START_HIDE`

* To show this button when you click on the desktop enter : `Program Manager`

Import:

Use this option to import a virtual keyboard.

* Some Virtual Keyboard Samples is available on www.BillProduction.com Export:

Use this option to export to a FILE the selected button in the **Buttons list**.

Color:

Use this option to change the Color of the selected button in the **Buttons list**.



Transparency:

Use this option to change the transparency of the selected button in the **Buttons list**.

(Click on RUN to see the effect)

Font:

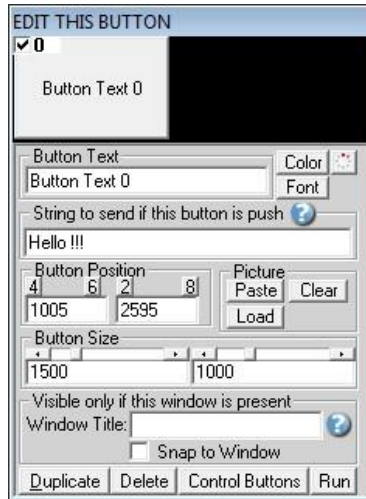
Use this option to change the Font of the selected button in the **Buttons list**.

Save cfg:

Use this option to save the current configuration.



VIRTUAL KEYBOARD (individual Buttons configuration)



To view the configuration of each button, activate the switch box in the left top corner.

Button Text:

Use this field to set what you want to see on the button.

String to send if this button is push:

Use this field to set the string to send if the user push this button. The string is redirect to Serial port, TCP port, File and or to the Keyboard buffer depending what switch is set to ON.

To send something when the button is pressed and another thing when it is released, use the following syntax:

```
{*P}Pressed{*P}{*R}Released{*R}
```

To sent something for the first time this button is pressed and another thing when it's pressed again, use the following syntax::

```
{EV1}First Time{EV1}{EV2}Second Time{EV2}
```

** The string is send in mode **RUN** only*

The string can contain: **See possible commands section*

Button Position:

Use this section to change the position if this button.

** Tips: Activate the NumLock Click the button and use the number 4,6,2 and 8 to change the position.*

Button Size:

Use this section to change the size of the button.

Window Title:

Option “Window Title” Description: With this option each button of your Virtual Keyboard can appear and disappear when a specific window title is activate.

*Example: If the window title is “Application weight expert Version 1.2b” and in the field “Window

Title” you enter “WEIGHT EXPERT” then each time that this window take the focus this button is visible.

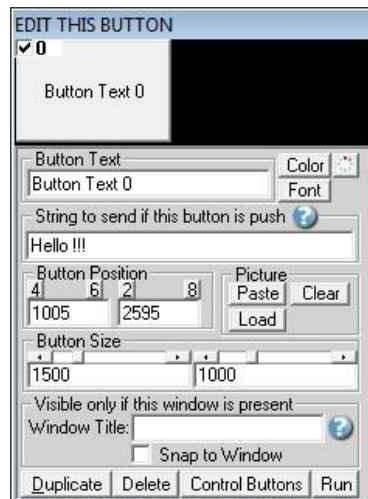
* To enter more of one window title, separate the title name by a comas:

Example: WEIGHT EXPERT, NOTEPAD, PAGE COUNT

* If this the field “**Window Title**” is blank, then the button is always visible.



VIRTUAL KEYBOARD (individual Buttons configuration) (continuation)



Duplicate:

Use this option to duplicate this button.

Color: Use this option to change the button back color.

Transparency:

Use this option to change the transparency of the button *(Click on RUN to see the effect).*

Font: Use this option to change the button text font.

Picture:

Use this section to:

Paste the picture from the ClipBoard to the button.

Clear the picture button.

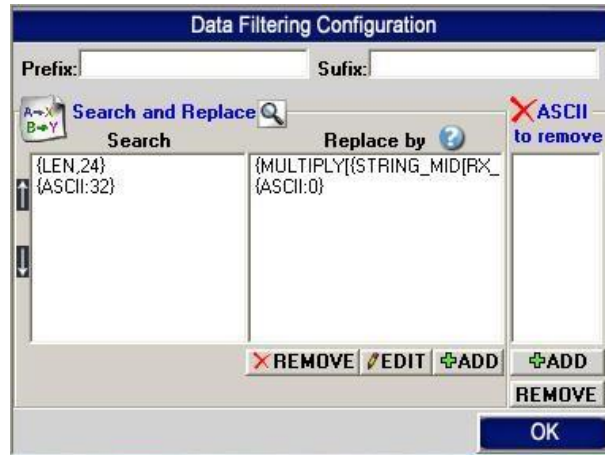
Load the picture button.

Run:

Use this option to try the Virtual Keyboard buttons.



DATA FILTERING CONFIGURATION



All options in that section apply to: Serial port, File, TCP port, Keyboard and Virtual Keyboard

The Prefix/Suffix:

When the software receive data from a peripheral, it add the PREFIX at the beginning of data and the Suffix at the end.

[Prefix][data from a peripheral][Suffix]

The Prefix and the Suffix can contain any characters and or commands that you want.

**see possible commands section*

The Remove ASCII section:

With this section you can remove ASCII characters directly from the received data. With the button Add you can add a new ASCII characters from 0 to 255.

*Example: To remove Enter, ADD: 13

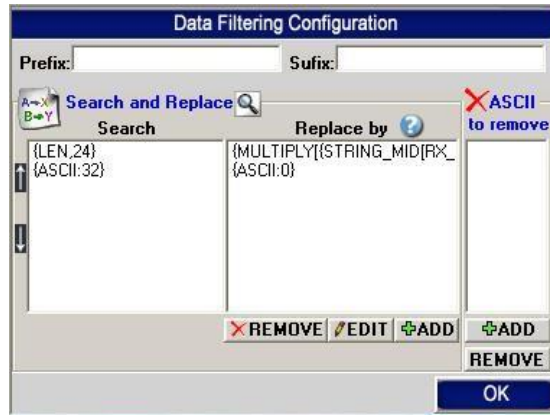
*Example: To remove Line Feed, ADD: 10

The Search and Replace section (up and down arrows):

Use the arrows up and down to change the order of the lines present in this section.



DATA FILTERING CONFIGURATION



The Search and Replace section:

With this section you can search and replace string from any peripheral. In the field “Search” enter the search string and in the string “Replace by” enter the replacement string. The “Replace by” string can contain what you want: **see possible commands section*

To search a string put the string

Example to search 123: 123

To search a integral string put the search sequence between "

Example to search 123: "123"

To search a string that start with something, add {START_WITH} before your search sequence:

Example to search sequences that start with 123: {START_WITH}123

To search a string that contains a specific sequence add {IN_STRING} before your search sequence: Example to search a string that contains 123: {IN_STRING}123

To search a string with a specific length use this syntax : {LEN,XX}

*Example to search a sequence with a length of 22 : {LEN,22}

To replace all that comes from the virtual button use this syntax: {BUTTON_RX}

To replace all that comes from the file use this syntax: {FILE_RX}

To replace all that comes from the serial port use this syntax: {SERIAL_RX}

To replace all that comes from the plugin use this syntax: {PLUGIN_RX}

To replace all that comes from the Keyboard use this syntax: {KB_RX}

To replace all that comes from the TCP use this syntax: {TCP_RX}

To replace all that comes from the USB scale use this syntax: {USB_RX}

To replace all use this syntax : {ALL_RX}

To replace all that comes from the virtual button if no rules have been found use this syntax: {BUTTON_RX_ELSE}

To replace all that comes from the file if no rules have been found use this syntax: {FILE_RX_ELSE}

To replace all that comes from the serial port if no rules have been found use this syntax: {SERIAL_RX_ELSE}

To replace all that comes from the plugin if no rules have been found use this syntax: {PLUGIN_RX_ELSE}

To replace all that comes from the Keyboard if no rules have been found use this syntax: {KB_RX_ELSE}

To replace all that comes from the TCP if no rules have been found use this syntax: {TCP_RX_ELSE}

To replace all that comes from the USB if no rules have been found scale use this syntax: {USB_RX_ELSE}

To replace all if no rules have been found use this syntax : {ALL_RX_ELSE}

Search and Replace Examples:

Example 1: On all data received: From the position 2 extract 5 characters

Search	Replace by
{ALL_RX}	{STRING_MID[RX_DATA,2,5]}

Example 2: To remove the spaces

Search	Replace by
{ASCII:32}	

Example 3: To remove text: LB

Search	Replace by
LB	

Example 4: To remove carriage return line feed

Search	Replace by
{ASCII:13}	
{ASCII:10}	

Example 5: If the string contain HELLO then start the calculator

Search	Replace by
HELLO	{RUN_PRG[C:\Windows\system32\calc.exe,1]}

Example 6: To receive only the value

Search	Replace by
{ALL_RX}	{MULTIPLY[RX_DATA,1,#.##]}

Example 7: To receive only the last 4 digits.

Search	Replace by
{ALL_RX}	{STRING_RIGHT[RX_DATA,4]}

Example 8: To multiply by 2 the number received.

Search	Replace by
{ALL_RX}	{MULTIPLY[RX_DATA,2,#]}

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The Test Button:

With this button you can send a string to the Serial port, File, TCP port and or Keyboard buffer. Use the ON/OFF switch to activate a output peripheral.

**see possible commands section*

**Sequence Example: Activate the Keyboard Buffer switch, Enter 123 in the field just across the button Test, open the NotePad click the button test, select the NotePad and wait ... after 10 seconds you can see 123 appear in the NotePad.*



The Password:

To access the configuration you have to enter a password. By default the password to is www.billproduction.com but with this field you can change this password for what you want.



POSSIBLE COMMANDS SECTION

You can use the commands on any fields (Prefix, Sufix, Search&Replace...) and or from any peripheral (Serial, File, TCP, Keyboard and Virtual Keyboard)

Special ASCII character:

To use special ASCII character use this sequence:

{ASCII:XXX}

XXX = 0 to 255

Example to search ASCII 2 character: {ASCII:2}

Example to search ASCII 13 (Enter) character: {ASCII:13}

Send data to Serial Port:

You can send data directly to the Serial Port connection

{TX_SERIAL[String to Send]}

*The String to Send can contain “Special ASCII character”: {ASCII:XXX}
Example: {TX_SERIAL[RX_DATA and Hello{ASCII:13}{ASCII:10}]}

Send data to a specific Serial Port:

You can send data directly to a specific Serial Port connection

{TX_SERIALX[String to Send, Port Number, Setting]}

*The String to Send can contain “Special ASCII character”: {ASCII:XXX}

Example: {TX_SERIALX[RX_DATA and Hello{ASCII:13}{ASCII:10},1,9600,N,8,1]}

Send data to TCP Port:

You can send data directly to the TCP connection

{TX_TCP[String to Send]}

*The String to Send can contain “Special ASCII character”: {ASCII:XXX}

Example: {TX_TCP[RX_DATA and Hello{ASCII:13}{ASCII:10}]}

Send data directly to a UDP port:

You can send data directly to a UDP port

{TX_UDP[String to Send, IP address, Port number, number of times]}

*The String to Send can contain “Special ASCII character”:

{ASCII:XXX}

* because the UDP protocol can't guarantee that data will be sent to the IP, you can with the option "number of times" repeatedly send the same packet.

Example of Broadcast: {TX_UDP[Hello RX_DATA,255.255.255.255,23,1]}

Example of Unicast: {TX_UDP[Hello RX_DATA,10.1.200.44,23,1]}

Send data to KEYBOARD BUFFER:

You can send data directly to the KEYBOARD BUFFER

{TX_KEYB[String to Send]}

*The String to Send can contain “Special ASCII character”: {ASCII:XXX}

Example: {TX_KEYB[RX_DATA and Hello{ASCII:13}{ASCII:10}]}

Send data to a VIRTUAL KEYBOARD BUTTON:

You can change the TEXT of a virtual button with this command

{TX_BUTTON_TXT[Button_Number, Text]}

Button_Number = The number of the button *(Add the letter S to save the Text button Example:S0)*

Text = The new text for this button

*The Text can contain “Special ASCII character”: {ASCII:XXX}

*To clear the text button use EMPTY in the Text

Example without Text button saved: {TX_BUTTON_TXT[0,Hello !!!]}

Example with Text button saved: {TX_BUTTON_TXT[S0,Hello !!!]}



POSSIBLE COMMANDS SECTION (continuation)

Send data to FILE:

With this command you can send data directly to a FILE,
{TX_FILE[FILE_NAME,STRING]} FILE_NAME:

Directory and file name

STRING : Sequence to save

*The String to Send can contain “Special ASCII character”: {ASCII:XXX}

Example 1: {TX_FILE[C:\Barcode.txt,Hello !!!]}

Example 2: {TX_FILE[C:\Barcode.txt,RX_DATA]}

Send data to PLUGIN:

With this command you can send data directly to PLUGIN,

{TX_PLUGIN[STRING]}

STRING : Sequence to send

*The String to Send can contain “Special ASCII character”: {ASCII:XXX}

Example: {TX_PLUGIN[Hello{ASCII:9}world !!!]}

Send data to another software field:

With this command you can send data directly in a field of another software,

{TX_FIELD[AppTitle,FieldNumber,TextToWrite]}

AppTitle: Enter the title of the window where is the field.

*Example: *If the window title is “Application weight expert Version 1.2b” then you can enter just a part of the title for example: WEIGHT EXPERT* FieldNumber: To open the FIELD FINDER, type FFINDER in BillRedirect Password field. TextToWrite: String to Send.

Example 1: {TX_FIELD[Notepad,15,Hello !!!]}

Example 2: *Add this rules in the section “Search and Replace”*

Search	Replace by
{ALL_RX}	{TX_FIELD[Calculator,403, RX_DATA]}

Click a button in another software:

With this command you can click a button in another software,

{CLICK_BUTTON[AppTitle,ButtonNumber]}

AppTitle: Enter the title of the window where is the Button.

*Example: *If the window title is “Application weight expert Version 1.2b” then you can enter just a part of the title for example: WEIGHT EXPERT*

ButtonNumber: To open the BUTTON FINDER, type BFINDER in BillRedirect Password field.

Example: {CLICK_BUTTON[Calculator,126]}

Copy data to CLIPBOARD:

You can copy data directly to the CLIPBOARD,

{COPY_CLIP[string to copy]}

*The String to Send can contain “Special ASCII character”: {ASCII:XXX}

Example: {COPY_CLIP[Hello !!!]}

Example: {COPY_CLIP[RX_DATA]}

Set DTR and RTS to ON/OFF:

Commands to control Serial port pin DTR and RTS,
{DTR_ON} {DTR_OFF} {RTS_ON} {RTS_OFF}



POSSIBLE COMMANDS SECTION (continuation)

Set DTR and RTS to ON x second(s):

Commands to control serial port pin DTR and RTS,
{DTR_PULSE[Delay]}
{RTS_PULSE[Delay]}

Delay: Delay in second Example 1:

{DTR_PULSE[2]}

Example 2: {RTS_PULSE[0.5]}

Run an executable program:

You can start a executable program

{RUN_PRG[Software_Name, Window_Style]} The

Window_Style has these values:

0 - Window is hidden and focus is passed to the hidden window.

1 - Window has focus and is restored to its original size and position.

2 - Window is displayed as an icon with focus.

3 - Window is maximized with focus.

4 - Window is restored to its most recent size and position. The currently active window remains active.

6 - Window is displayed as an icon. The currently active window remains active.

Example: {RUN_PRG[C:\Windows\system32\calc.exe,1]}

Mouse action:

With this command you can control the mouse

{MOUSE_ACTION[X,Y,SCR_WIN,ACTION]}

X = Horizontal position (use 0 for the current position,also supports negative values)

Y = Vertical position (use 0 for the current position,also supports negative values)

SCR_WIN = SCREEN or WINDOW or CURRENT

SCREEN: Position on the screen

WINDOW: Position on the current window

CURRENT: current position

ACTION = LEFT_CLICK, LEFT_DBL_CLICK, MIDDLE_CLICK,

MIDDLE_DBL_CLICK, RIGHT_CLICK, RIGHT_DBL_CLICK or

NO_ACTION

Example: {MOUSE_ACTION[100,100,SCREEN,LEFT_CLICK]}

Example: {MOUSE_ACTION[200,300,WINDOW,LEFT_DBL_CLICK]}

Example: {MOUSE_ACTION[-500,0,CURRENT,NO_ACTION]}

To open the mouse position monitor, type **MOUSE in the password field.*

String manipulation MID:

With this command you can extract a specific number of characters,

{STRING_MID[RX_DATA,Start,Length]}

Start = Starting position.

Length = Number of character to return (use 0 to extract all character from the Start)

Example: {STRING_MID[RX_DATA,2,0]}

Example: {STRING_MID[RX_DATA,2,3]}

Example, from character 2 extract all characters except the last 3:

{STRING_MID[RX_DATA,2,-3]}

String manipulation RIGHT:

With this command you can extract from the right a specific number of characters,

{STRING_RIGHT[RX_DATA,Length]}

Length = Number of character to return

Example: {STRING_RIGHT[RX_DATA,4]}



POSSIBLE COMMANDS SECTION (continuation)

String manipulation LEN:

This command returns the length of the specified string,

{STRING_LEN[RX_DATA,AddOrSub]}

AddOrSub = You can add or subtract a value to the result.

Example: {STRING_LEN[Hello !!!,-3]}

Result is: 6

Example: {STRING_LEN[Hello !!!,+3]}

Result is: 12

Example: {STRING_LEN[Hello !!!,0]}

Result is: 9

String manipulation NOSPACE:

With this command you can remove all space separator from a string and replace it by what you want,

{STRING_NOSPACE[RX_DATA,ReplaceBy]}

ReplaceBy = String should be replaced by what spaces. Example:

{STRING_NOSPACE[1 2 3.22 4.55 2 5,*]}

Result is: 1*2*3.22*4.55*2*5

String manipulation REPLACE:

With this command you can replace a sequence of characters in a string with another set of characters. {STRING_REPLACE[RX_DATA,Find,Replacement]}

Find = Is the string that will be searched for in RX_DATA.

* You can use **NOT**: to replace all characters not included by the Replacement.

Replacement = Will replace Find string in RX_DATA

Example: {STRING_REPLACE[RX_DATA,2,A]}

Example: {STRING_REPLACE[123456,2,A]}
Result is: 1A3456
Example: {STRING_REPLACE[123456,NOT:246,A]}
Result is: A2A4A6

Conversion FROM BASE:

With this command you can convert base ten numbers to other bases,
{CNV_TOBASE[TheNumber,NewBase]} TheNumber =
Number in base 10
NewBase = New base (2 = Binary, 10 = Decimal, 16 = Hexadecimal)

Example: {CNV_TOBASE[255,02]}
Example: {CNV_TOBASE[RX_DATA,02]}

Conversion TO BASE:

With this command you can convert any base numbers to base ten,
{CNV_FROMBASE[TheNumber,OldBase]} TheNumber
= Number in any base
OldBase = The base (2 = Binary, 10 = Decimal, 16 = Hexadecimal)

Example: {CNV_FROMBASE[FF,16]}
Example: {CNV_FROMBASE[RX_DATA,10]}

Delete a FILE:

With this command you can delete a FILE,
{DEL_FILE[FILE_NAME]}
FILE_NAME: Directory and file name Example:
{DEL_FILE[C:\Barcode.txt]}



POSSIBLE COMMANDS SECTION (continuation)

Conversion BYTE to Hexadecimal:

With this command you can convert data received from Byte to Hexadecimal format,
HEX_DATA
** In other words, use HEX_DATA instead of RX_DATA*
** To receive the data in Hexadecimal inverted use HEXR_DATA*

Multiply by:

With this command you can multiply any numbers,
{MULTIPLY[TheNumber,Multiply_by,Format]}
TheNumber = Number
Multiply_by = Number
Format = *Optional: For example the format for 2 decimal is #.##
Example: {MULTIPLY[10,2]}

Example: {MULTIPLY[RX_DATA,10,#.##]}

Divide by:

With this command you can divide any numbers,

{DIVIDE[TheNumber,Divide_by,Format]}

TheNumber = Number

Divide_by = Number

Format = *Optional: For example the format for 2 decimal is #.##

Example: {DIVIDE[10,2]}

Example: {DIVIDE[RX_DATA,10,#.##]}

Addition:

This command return the sum of two numbers,

{SUM[TheNumber1, TheNumber2,Format]}

TheNumber1 = Number

TheNumber2 = Number

Format = *Optional: For example the format for 2 decimal is #.##

Example: {SUM[10,2]}

Example: {SUM[RX_DATA,10,#.##]}

Subtraction:

This command return the subtraction of two numbers,

{SUB[TheNumber1, TheNumber2,Format]}

TheNumber1 = Number

TheNumber2 = Number

Format = *Optional: For example the format for 2 decimal is #.##

* Example: {SUB[10,2]}

* Example: {SUB[RX_DATA,10,#.##]}



POSSIBLE COMMANDS SECTION (continuation)

Hide Virtual Button(s):

With this command you can make virtual button(s) invisible(s),

{BUTTON_HIDE[XX,XX,XX,...]}

XX = The number of the button (*ALL = All virtual buttons*)

Example to make virtual buttons 1 to 3 invisibles: {BUTTON_HIDE[1,2,3]}

Example to make all virtual buttons invisibles: {BUTTON_HIDE[ALL]}

* To control buttons «In a Window» the syntax is: {WBUTTON_HIDE[XX,XX,XX,...]}

* To make a virtual button invisible at startup: In the configuration of the button in the field «Window Title» enter : **START_HIDE**

Show Virtual Button(s):

With this command you can make virtual button(s) visible(s),

{BUTTON_SHOW[XX,XX,XX,...]}

XX = The number of the button (*ALL = All virtual buttons*)

Example to make virtual buttons 1 to 3 visible: {BUTTON_SHOW[1,2,3]}

Example to make all virtual buttons visible: {BUTTON_SHOW[ALL]}

* To control buttons «In a Window» the syntax is: {WBUTTON_SHOW[XX,XX,XX,...]}



Change the color of Virtual Button(s):

With this command you can change the color of virtual button(s) ,

{BUTTON_COLOR[COLORNO,XX,XX,...]} COLORNO

= Color number

XX = The number of the button (ALL = All virtual buttons)

* To find the value of a color: In a virtual button choose a color with the button  after this operation, move the mouse cursor to the button  and wait... the value will appear.

Example to change the color of buttons 1 2 and 3 in red: {BUTTON_SHOW[255,1,2,3]}

Example to change the color of all buttons in red:

{BUTTON_COLOR[255,ALL]} * To control buttons «In a Window» the syntax is:

{WBUTTON_COLOR[COLORNO,XX,XX,...]}

Load a configuration button « In a Window » section:

With this command you can load a configuration of buttons ,

{WBUTTON_LOAD[CFG_NAME]}

CFG_NAME = Name of the configuration to be loaded. Example

to load the configuration 12345: {WBUTTON_LOAD[12345]}

* If the configuration does not exist then the configuration named ERROR will be loaded.

String manipulation RWPARG:

With this command you can extract character from a string using delimiters,

{STRING_RWPARG[RX_DATA,Delimiter,Position]}

Delimiter = Delimiter ASCII characters value from 0 to 255 (Example use 9 for TAB)

Position = Parameter number to extract

Example to extract parameter #1: {STRING_RWPARG[RX_DATA,9,1]}

Set the variable LST_TXCMD:

With this command you can set the variable LST_TXCMD (Last command sent),

{TX_LSTCMD[STRING]}

STRING = Sequence to save in variable LST_TXCMD

Example to save HELLO in to LST_TXCMD: {TX_LSTCMD[HELLO]}

Example to clear the variable LST_TXCMD: {TX_LSTCMD[]}

* By default the variable LST_TXCMD contain the last command sent by the software * You can use the variable LST_TXCMD at any place that you want.



POSSIBLE COMMANDS SECTION (continuation) Proximity RFID

AWID readers data conversion:

With this command you can convert AWID data to card number,

{CNV_AWID[TheNumber,Facility]}

Facility = 0 for disable or 1 to enable

TheNumber = Number

Example to receive the facility code and the card number:

Add this rules in the section "Search and Replace"

Search	Replace by
{ALL_RX}	{CNV_AWID[RX_DATA,1]}

Bioscrypt finger readers data conversion:

With this command you can convert Bioscrypt Finger data to Template ID number,

{CNV_BIOSCRYPT[TheNumber]}

TheNumber = Number to convert

Example: To convert a Bioscrypt Finger to "Template ID number":

Add this rules in the section "Search and Replace"

Search	Replace by
{START_WITH}{ASCII:64}	{CNV_BIOSCRYPT[RX_DATA]}{ENTER}

BluePrint Symcod finger readers data conversion:

With this command you can convert BluePrint Finger data to Template ID number,

{CNV_BLUEPRINT[TheNumber]}

TheNumber = Number to convert

Example: To convert a BluePrint Finger to "Template ID number":

Add this rules in the section "Search and Replace"

Search	Replace by
{START_WITH}{ASCII:64}	{CNV_BLUEPRINT[RX_DATA]}{ENTER}

Set the serial Port Number:

With this command you can change the serial port number.

** Perfect to enable and disable the serial port via a virtual button.*

{SERIALPORTNUMBER[TheNumber]} TheNumber =

Port number

Example to use the serial port number 2: {SERIALPORTNUMBER[2]}

Example to disable the serial port: {SERIALPORTNUMBER[0]}

Displays an input box to ask the user to enter a string:

With this command you can ask a question and use the answer.

{INPUT_BOX[Prompt,Title,X,Y,Default]}

Prompt = The question

Title = Window title

X = Horizontal position (optional)

Y = Vertical position (optional)

Default = String expression displayed in the text box as the default (optional)

Example to ask a username: {INPUT_BOX[Your name,Identification]}

**To open the mouse position monitor, type MOUSE in the password field.*

**To use the answer, use {ANSWER01} for question 1 and {ANSWER02} for question 2 ...*



Change Prefix:

With this command you can change the Prefix,

{PREFIX[String]}

Example: {PREFIX[Hello !!!]}

Change Sufix:

With this command you can change the Sufix,

{SUFIX[String]}

Example: {SUFIX[Hello !!!]}

Activate a target window:

With this option you can activate a target window application,

{APP[Window_Title_Name]}

Window_Title_Name = Title of the window you activate

* You can enter just a part of the title, for example if the title is “my application software” you can enter just a part of the title for example: my application Example: {APP[my application]}

Change serial port Timeout:

With this command you can change the serial port “Timeout” option,

{SERIAL_TIMEOUT[Value]}

Example: {SERIAL_TIMEOUT[999.03]}

Example: {SERIAL_TIMEOUT[0.03]}

* *For more information about timeout Value see section “SERIAL PORT DESCRIPTION”*

Change serial port Timeout:

With this command you can change the serial port “Timeout” option,

{SERIAL_TIMEOUT[Value]}

Example: {SERIAL_TIMEOUT[999.03]}

Example: {SERIAL_TIMEOUT[0.03]}

* *For more information about timeout Value see section “SERIAL PORT DESCRIPTION”*

Change serial port Initialisation interval (Polling):

With this command you can change the serial port “Initialisation xx second(s)”,

{SERIALINIT[Seconds,NbSent]}

Seconds = Interval between each sending.

NbSent = Number of times the file C:\BillProduction.CFG\init_serial.txt will be sent.

Use 9999 to send the sequence to the infinite.

Use 1 for one time or to stop polling.

Note: You can use this syntax to use/show the current count value: {SER_NB_INIT}

Note: At the end of acquisition an event {SER_NB_END} will be generated.

Example: {SERIALINIT[5,50]}

Example: {SERIALINIT[0.2,10]}



POSSIBLE COMMANDS SECTION (continuation)

RFID TAG ISO 11784 / 11785 HITAG ALLFLEX data conversion:

With this command you can convert animal TAG identification number from binary or hexadecimal to

Canada format (number indicated on the TAG)

*** Tested with low cost reader / scanner: Cybortra and Sumlung Technology.

{CNV_ISO_11784_11785_QC[NumberHEXorBIN]}

NumberHEXorBIN = Number received from the scanner (Bin or Hex)

Example to receive the number indicated on the TAG from a Binary scanner:

Add this rules in the section "Search and Replace"

Search	Replace by
{ALL_RX}	{CNV_ISO_11784_11785_QC[RX_DATA]}

Set a variable with SET_VAR:

With this command you can set a variable

{SET_VAR[NO,STRING]}

NO = Variable number from 1 to 50

STRING = Sequence to save in variable {GET_VAR[NO]}

Example to save HELLO in variable #1: {SET_VAR[1,HELLO]}

Example to clear the variable #1: {SET_VAR[1,]}

* You can use the variable {GET_VAR[NO]} at any place that you want.

Define a file header for FILE section and command TX_FILE:

With this command you define a FILE header

{FILE_HEADER[STRING]}

STRING = The STRING used for the header

Example for a Excel file:

{FILE_HEADER[Date{ASCII:9}Time{ASCII:9}Weight{ASCII:13}{ASCII:10}]}RX_DATA



POSSIBLE COMMANDS SECTION (continuation)

Keyboard buffer output, possible values

Each key is represented by one or more characters. To specify a single keyboard character, use the character itself. To represent the letters A, B, and C, use ABC for string. To specify characters that aren't displayed when you press a key, such as ENTER or TAB, and keys that represent actions rather than characters, use the codes shown below:

Description	Command
SEND TO WINDOWS DESKTOP	{WinDesk}
SEND TO CURRENT WINDOWS	{WinCur}
START MENU WINDOWS	{StartWin}
BACKSPACE	{BACKSPACE}, {BS}, or {BKSP}
BREAK	{BREAK}
CAPS LOCK	{CAPSLOCK}
DEL or DELETE	{DELETE} or {DEL}
Comma	{COMMA}
DOWN ARROW	{DOWN}
END	{END}
ENTER	{ENTER} or ~
ESC	{ESC}
HELP	{HELP}
HOME	{HOME}
INS or INSERT	{INSERT} or {INS}
LEFT ARROW	{LEFT}
NUM LOCK	{NUMLOCK}
PAGE DOWN	{PGDN}
PAGE UP	{PGUP}
PRINT SCREEN	{PRTSC}
RIGHT ARROW	{RIGHT}
SCROLL LOCK	{SCROLLLOCK}
TAB	{TAB}
UP ARROW	{UP}
Current prefix	{CURPREFIX}
Current suffix	{CURSUFIX}
Current System Time	{CURTIME}
Current System Time with millisecond	{CURTIMEMS}
Current System Date	{CURDATE:DD-MM-YYYY}
Get clipboard text	{CLIPBOARD}
XX Button text (XX = The virtual button number)	{BUTTON_TXT[XX]}
XX Button text (XX = The "In a Window" button number)	{WBUTTON_TXT[XX]}
F1 to F16	{F1} to {F16}
{SHIFT_DOWN}	Key Shift press
{SHIFT_UP}	Key Shift release
{CTRL_DOWN}	Key Ctrl press
{CTRL_UP}	Key Ctrl release
{ALT_DOWN}	Key Alt press
{ALT_UP}	Key Alt release
Data received (example the Barcode)	RX_DATA
Data received in Hexadecimal	HEX_DATA or HEXR_DATA for inverted
Last command sent by the software	LST_TXCMD
In TCP SERVER mode the IP address	{TCP_ADR}
{PAUSE.01SEC}	Do a pause of .01 second
{PAUSE.1SEC}	Do a pause of .1 second
{PAUSE.5SEC}	Do a pause of .5 second
{PAUSE1SEC}	Do a pause of 1 second
{PAUSE2SEC}	Do a pause of 2 seconds

To specify keys combined with any combination of the SHIFT, CTRL, and ALT keys, precede the key code with one or more of the following codes:

{SHIFT}	{CTRL}	{ALT}
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Example, to send ALT and A use this syntax: {ALT}A